



iMM Client / Server

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iMM Server Manuál



Get started

Commands are given in purple, e.g.: `sudo reboot`

Upozornění jsou uváděny oranžovou barvou:

! IMM server allows to set you only one door intercom.

Tipy a triky jsou uváděny zeleně:

i In list we can add and remove elements manually

Caption:

Folder / Directory		space at disc where files (pictures, films, videos) are saved. Directory may contain further subdirectories.
iMM application	aplikace	sw application on video zone
Audio zone	AZ	zone equipped with music player (Squeezebox or other) and speakers
EPG		electronic program guide
Ethernet	LAN	wire (cable) network
Floorplan	FP	floor plan of house or individual rooms
Full HD		High image resolution (1920x1080px); detail and sharp image. Can be achieved from BlueRay or TV program providers in HD quality.
DB	DB	see Streamer
Gyro control	GO	wireless mouse reacting to hand movement; serves to control the menu on the video zone
iDM		iNELS Designer and Manager – sw environment for iNELS configuration
iMMClient		video zones
iMMControl Center	iMM CC	iMM configuration administrator available via web interface
IP camera		camera connected to system which transfer the image on Ethernet or Wifi
Linux		Operational system VZ on which iMM application runs
LT	LT	list of songs, videos or pictures
NFS	NFS	(Network File Systems) protocol for sharing files and folders
Playlist		list of songs, videos or pictures
PT	PT	right button of Gyro control
Slideshow	SS	automatic presentation of pictures
Streamer		satellite receiver that streams TV image to video zones
Stream		is link (file) to place (on internet, in network, IP player or Streamer) which provides image or sound
Storage		a place on iMM server hard disk drive where files which all iMM system users share are centrally saved
Video zone	VZ	zone equipped with iMM Client and TV (or another monitor).
WiFi		wireless network
Gateway	GW	device Miele gateway or KNX gateway
Asterisk	PBX	software server side for IP calling by technology VOIP

Linux commands are inserted into the terminal to start using the keyboard shortcut. CTRL+ALT+T

Important basic Linux commands:

<code>ifconfig</code>	- finding IP address of station/server, similar to IPCONFIG in Windows
<code>mount</code>	- command for connection of certain device (CD-ROM, network drive, etc.)
<code>umount</code>	- command for disconnection of certain device
<code>man</code>	- command is used to format and display the man page for example. <code>man mount</code>
<code>sudo shutdown now</code>	- command shut down device iMM Client/Server from terminal
<code>sudo reboot</code>	- command reboot device iMM Client/Server from terminal

iMM services

Restart webserver iMM CC	<code>sudo /etc/init.d/imm-webadmin restart</code>
Restart asterisk VOIP PBX	<code>sudo /etc/init.d/asterisk restart</code>
Restart iMM server	<code>sudo /etc/init.d/imm_server stop</code> <code>sudo /etc/init.d/imm_server start</code>

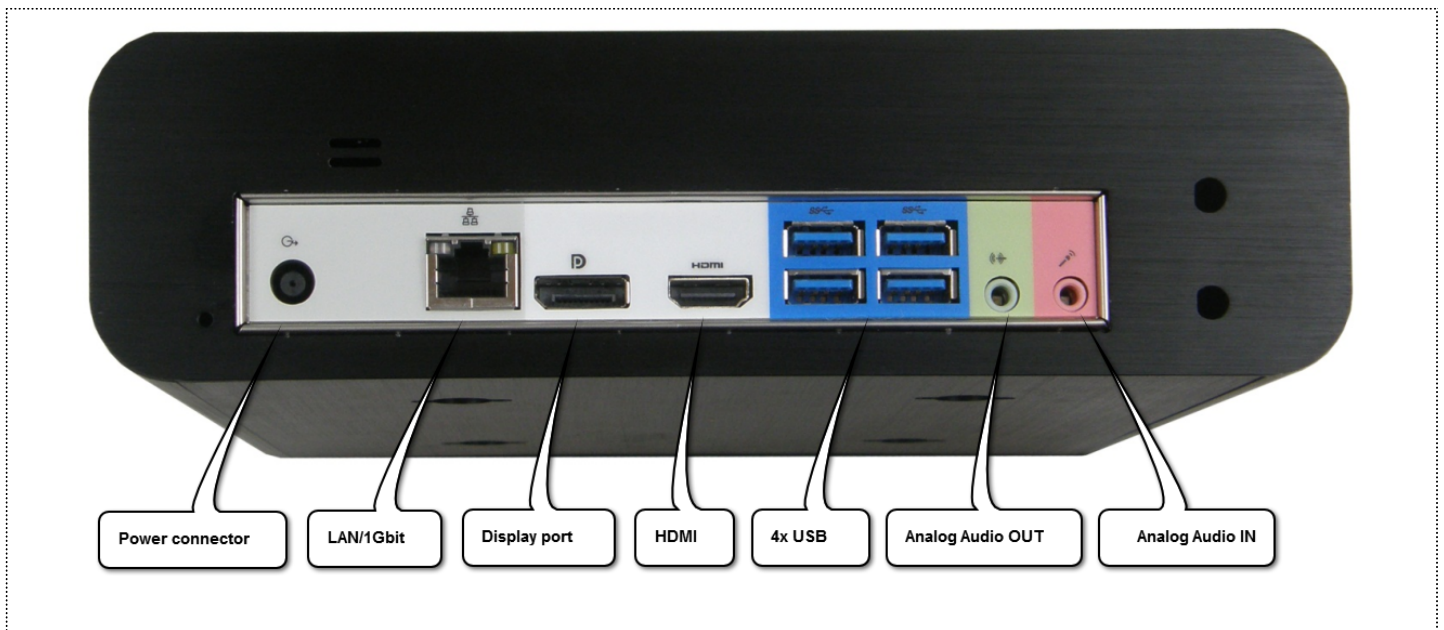
1.1. Putting VZ in operation


a) Once you unpack VZ, let the device stabilize at room temperature.

b) Connect the cabling:

- 230V/19V adapter.
- LAN (iMM cannot be triggered without the presence of active network connection).
- Mouse and keyboard (connection via USB).
- Display device: TV or PC monitor by means of HDMI, or DisplayPort.

Audio output: 3.5 mm jack analogue or digital HDMI





c) Switch on by pressing the On/Off button  on the front side of VZ.

d) When the system starts up, iMM application starts automatically (blue screen).

1.2. Basic setting

Setting in this chapter need not be carried out; it serves for potential problem solution and general assistance in the Linux system orientation. Majority of these settings is done already in the production but one should get familiarized with them and go back to them if a problem occurs.

- Terminate Application by holding down the left mouse button (for longer than 5 seconds) on icon .
- You are on the Linux working area now.
- The application can be restarted by icon  on the desktop.

1.2.1 Change of password

- Enter `sudo passwd` in terminal, and confirm by Enter.
- You will be asked to enter the original password (default is "imm123"), and confirm by Enter.
- Then enter a new password, confirm by Enter, repeat the new password and confirm by Enter.
- Close the terminal with the cross in the left upper corner.

! No characters display when writing a password in terminal.

1.2.2 Resolution adaptation:


The application can be run on LCD, plasma TV or PC monitor with lower resolution than Full_HD. If the resolution does not seem to be correct Application has to be re-installed. During the installation, Application will recognize correct resolution of the display device, and will adapt to it. The TV image should be adjusted to „Adapt“. First of all, the client part has to be reinstalled. If the version is Server/Client, also the server part will have to be reinstalled.

1.2.3 Installation of new version

- Download the package with new Application version to VZ desktop.
- Click on the downloaded package with the right mouse button, and selection the "Extract Here" option.
- A new folder named "iMM" will appear on the desktop.
- Open the folder and by double click select the "install.sh." file.
- Select "Run in terminal" option in the dialogue window.
- A window with terminal will open, requesting a password. As default the password is "imm123". If you changed the password, enter the password you chose and confirm by Enter.
- Proceed by the installation instructions in the terminal.

- h) If the terminal requests installation of additional packages, confirm the “Y” question and press Enter.
- i) During the server part installation unpack the package on the desktop, same as with the client version, and install it in the same manner. (file: “install 12.04.sh”)
- j) When the installation is completed, terminal closes automatically, and then restarts given VZ.

1.2.4 Restart and turning the system off


Pressing the „F9“ key will display the upper and lower system bar. Click on icon in the top right corner. 

When the menu unpacks, select the desired option: **Shut Down...** or **Shut Down...** and in new window **Restart**

 Pressing the button with  symbol on the front VZ panel calls up a menu with options for switching off and restart of VZ.

1.2.5 Setting static VZ IP address

All VZ are preset to get automatically IP address via DHCP. For stations it is however recommended to set fixed IP address of adequate range of home network.

- a) Call up the system bar using the “F9” key.
- b) By the left mouse button click on the network icon  in the upper bar.
- c) Select the option “Edit Connections”.
- d) A window opens in which select the network named "Wire connection 1", and click on the “Adapt” option.
- e) In the next window select the bookmark “Setting IPv4”, and in the drop down menu select “Manual”.

Editing Auto ETH0

Connection name:

☒ Connect automatically

Wired 802.1x Security IPv4 Settings IPv6 Settings

Method:

Addresses

Address	Netmask	Gateway
192.168.1.41	255.255.255.0	192.168.1.1

DNS servers:

Search domains:

DHCP client ID:

☐ Require IPv4 addressing for this connection to complete

☒ Available to all users


f) A table activates where the "Add" option activates the line for address definition.

- enter IP address of relevant home network range in the "Address" column
- in the "network mask" column enter the mask network
- type the address of your router in the "Gate" column, and confirm by Enter

g) Type again your router's address in the "DNS servers" line or ipaddress your ISP.

h) Confirm by "Save.." key, enter the password and close all windows.

i) Press F9, click on the network connection icon  by the left mouse button, and select "Disconnect".

j) After disconnection click on the network connection icon  n the upper system bar and, instead of "Disconnect", select "Wire connection 1".

Thus the connection restarts.

1.2.6 Setting the font (preset within the factory settings)

a) Call up the system bar using the "F9" key.

- Application#System tools#Preferences#Advanced settings

b) Select Theme#Window theme "use"(tick only) „Dust“

In the “Fonts” bookmark set the fonts as follows:

- Default font: Myriad Pro 16
- Document font: Myriad Pro 16
- Monospace font: Myriad Pro 16
- Window title font: Myriad Pro 16
- “Close” after completion.

1.2.7 Update administration

The system searches own software update resources by means on the internet. To this purpose there is update administrator which, when update is found, opens itself and alerts users on the possibility of downloading new updates. It is recommended to maintain the system updated.

- a) You can activate update administrator by yourselves and thus check the software update status. By calling up system bar “F9”select
 - Application#System tools#Administration#Update Manager
- b) Click on “Install update” in the “Update Manager” window.
- c) The system asks you to type your password; confirm by “„Authenticate”.
- d) The system will inform you on the course of download and installation of new updates.
- e) After the completion the wizard closes automatically, and the system should be restarted (see Chapter 1.2.4.).

Automatic update setting



You can set download and installation of update automatically without confirmation and any other interventions of user...

- a) Upload **Ubuntu Software center**, select Edit →Software sources from the menu... open the tool for update and software resources setting and go to the **Update** card.
- b) In the Ubuntu update select which updates will be installed (for automatic update we recommend to enable only **Important Security updates**).
- c) In the Automatic update part then select how often the system will check the availability of updates, and for direct installation of updates after the download tick the option **Download and install automatically**.

Ubuntu Software Other Software Updates Authentication Statistics

Install updates from:

- ☒ Important security updates (precise-security)
- ☐ Recommended updates (precise-updates)
- ☐ Pre-released updates (precise-proposed)
- ☐ Unsupported updates (precise-backports)

Automatically check for updates: Daily ▼

When there are security updates: Download and install automatically ▼

When there are other updates: Display weekly ▼

Notify me of a new Ubuntu version: For long-term support versions ▼

Revert Close

2. Network File System configuration

NFS has to be set in case you use multiple VZ. If you use single VZ as IMM server, NFS need not be configured.

2.1 NFS configuration to VZ iMM Server

! The following setting must take place physically on iMM Server.

- a) Press the "F9" key to display the system bar, and open the web browser (default Firefox).
- b) Type address <http://localhost:8080> to open iMM CC.
- c) Here, in the "Configuration" bookmark, set the CU unit IP address and the IP address of server (of this station), of Squeezebox server, path in Music folder in relevant lines.
- d) Confirm the change by pressing "update" and close the browser.
- e) Enter the command "`sudo gedit /etc/exports`" in the terminal.
- f) The terminal will request your password and file export opens in the text editor after confirming by Enter.
- g) Add the below line at the end of the line:
`/home/imm „IP address“/„mask network“(rw,sync,no_subtree_check)`
*(*in the quotation marks of the actual address)*

example: **`/home/imm 10.10.3.0/255.255.255.0(rw,sync,no_subtree_check)`**
*for **server** there is ALWAYS zero at the end of the IP address!*
- h) Save the changes in the file and close it.
- g) Restart VZ.

Note:

The address of the Squeezebox server is the IP address of the device where the server for music playback is installed. The path to the Music folder is a precisely pre-defined path to the folder in the system, and must always have the following format: `„/home/imm/Music“`. The secondary and licence key is generated in the production, and must not be deleted otherwise iMM Client will not work.

Shared folders in Storage are located here:

`/home/imm/Pictures` : for keeping photographs and pictures

`/home/imm/Music` : for saving audio files

`/home/imm/Video` : for saving video files

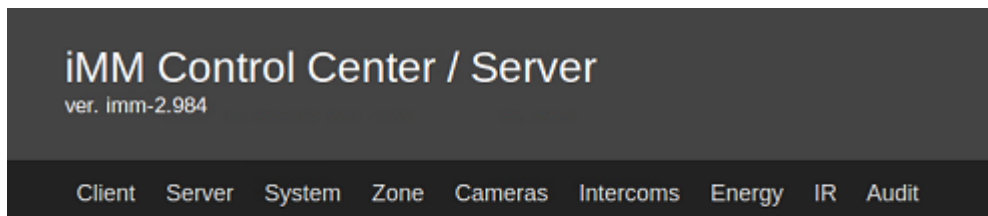
`/home/imm/Television` : here links to TV streams are saved for example VU+ or IP television.

`/home/imm/Cameras` : here configuration files of cameras connected to iMM system are stored

2.1 NFS configuration on IMM Client

You need to do this part physically, separately for each IMM Client.

- a) Press the "F9" key to display the system bar, and open the Firefox web browser.
- b) Type the address <http://localhost:8090> to open IMM CC.
- c) Here, in the "Configuration" bookmark, type the IMM Server's IP address in the "Address of IMM server" line



Settings

IP of IMM Server:

Licence key:

- d) Confirm by pressing "update" and close the browser.
- e) Enter the command `sudo gedit /etc/fstab` in the terminal and confirm by Enter.
- f) You will be asked to type your password; which you will confirm by Enter.
- g) The file "fstab" will upload in the text editor. Add the below line to the end of the file:

```
ip_imm_server:/home/imm /mnt/nfs nfsver=3,bg, _netdev, nolock, hard, rw, user 0 0
```
- h) Save the file by pressing CTRL+S and terminate the application by CTRL+X.
- i) Now you **need** to restart IMM Client; this will map automatically the needed folders from the server.
- j) When the system starts up, terminate the IMM Application, and in folder "Storage" delete the following folders (Video, Music, Television, Cameras, Pictures). Then open the terminal and enter the following commands:

<code>sudo ln -s /mnt/nfs/Music /home/imm/Music</code>	(command for connection to Music storage)
<code>sudo ln -s /mnt/nfs/Video /home/imm/Video</code>	(command for connection to Video storage)
<code>sudo ln -s /mnt/nfs/Television /home/imm/Television</code>	(command for connection to Television storage)
<code>sudo ln -s /mnt/nfs/Cameras /home/imm/Cameras</code>	(command for connection to Cameras)
<code>sudo ln -s /mnt/nfs/Pictures /home/imm/Pictures</code>	(command for connection to Pictures)
- k) Once all the above commands are entered, end the terminal and restart the IMM application by opening the icon on the desktop.

2.3 Connection of external hard disk drives

Server

Settings fstab

In terminal: `sudo gedit /etc/fstab`

Add a new line to the end:

```
"UUID=F474B7AA74B76DCC /media/My\040Passport ntfs-3g
defaults,nosuid,nodev,nobootwait,locale=cs_CZ.UTF-8 0 0"
```

Hard disk drive identifier is **in red**; in **bold** is the name of hard disk drive; you can find it out by the following command: `sudo blkid` which is typed behind `UUID=XXXXXXXXXXXXXXXX` in a line which ends with `ntfs`.

The HDD name can be found behind the legend. `LABEL=XXXXXXXXXXXXXXXX`

Example: In terminal: `„sudo blkid“` the following appears:

```
/dev/sda1: UUID="453a8d4f-d4fb-4c4e-8de5-ef7666e689d1" TYPE="ext4" - (iMM client's hard disk drive)
/dev/sda5: UUID="0a49bd69-20a7-490c-97db-6781bd794837" TYPE="swap" - (iMM client's mechanics)
/dev/sdb1: LABEL="My Passport" UUID="F474B7AA74B76DCC" TYPE="ntfs" - External hard disk drive)
```

Note: Instead of the space in the name of the hard disk drive (if there is any) you have to add `„\040„`.

Setting exports

Do terminálu: `„sudo gedit /etc/exports“`

Na konci textu přidáte nový řádek:

```
"/media/My\040Passport 192.168.88.0/255.255.255.0(rw,fsid=0,no_root_squash,no_subtree_check,sync)"
```

Rozsah sítě se liší podle toho na jaké síti je iMM server zapojen... (**192.168.88.0**) Nakonec tohoto rozsahu píšete nulu.

Client

`fstab` setting

In terminal: `„sudo gedit /etc/fstab“`

Add a new line to the end:

```
IPADDRESS:/media/My\040Passport /media/My\040Passport / nfs nfsvers=3,rw,hard,intr 0 0
```

Note: `“My\040Passport”` is the name of device of concrete hard drive disk which has to be precisely defined in the client's `fstab` (same as in `fstab` on the server).

2.4 Sharing external storage – external HDD

Server settings:

- a) Set fstab in the same manner like fstab settings of Server [2.3](#).
- b) Set Export in the same manner like the Server [2.3](#) Export settings.
- c) Restart server.
- d) Now delete system folders via terminal by entering the below commands:

```
rm -r /home/imm/Video 2>/dev/null
rm -r /home/imm/Pictures 2>/dev/null
rm -r /home/imm/Television 2>/dev/null
rm -r /home/imm/Cameras 2>/dev/null
```

- e) In the terminal, go to Create "iMM" folder on HDD.

Notice!: The name of the hard disk "iMM HDD" will always differ depending on how you name your concrete HDD.

Ex.: If the name of your HDD is, for instance: "Verbatim" the names in the below links change to: `(mkdir /media/Verbatim/iMM)`

```
mkdir /media/iMM-HDD/iMM
mkdir /media/iMM-HDD/iMM/Video 2>/dev/null
mkdir /media/iMM-HDD/iMM/Video/Recording 2>/dev/null
mkdir /media/iMM-HDD/iMM/Video/Cameras 2>/dev/null
mkdir -m 0777 /media/iMM-HDD/iMM/Pictures 2>/dev/null
mkdir /media/iMM-HDD/iMM/Television 2>/dev/null
mkdir /media/iMM-HDD/iMM/Music 2>/dev/null
mkdir /media/iMM-HDD/iMM/Cameras 2>/dev/null
```

- f) Then create the below system folders in the terminal:

```
ln -s /media/iMM-HDD/iMM/Music/ Music
ln -s /media/iMM-HDD/iMM/Video/ Video
ln -s /media/iMM-HDD/iMM/Pictures/ Pictures
ln -s /media/iMM-HDD/iMM/Television/ Television
ln -s /media/iMM-HDD/iMM/Music/ Music
ln -s /media/iMM-HDD/iMM/Cameras/ Cameras
```

- g) Then you can already upload your data!

Client

a) Set fstab in the same manner like fstab Client 2.3. settings.

b) Then create the below symbolic links in the terminal:

```
ln -s /media/iMM-HDD/iMM/Music/ Music
```

```
ln -s /media/iMM-HDD/iMM/Video/ Video
```

```
ln -s /media/iMM-HDD/iMM/Pictures/ Pictures
```

```
ln -s /media/iMM-HDD/iMM/Television/ Television
```

```
ln -s /media/iMM-HDD/iMM/Cameras/ Cameras
```

Note: For visibility of HDD in folders type the following command in the terminal:

```
for path in Music Video Pictures; do [ ! -L ~/"$path/#EXTERNAL" ] && ln -s /media ~/"$path/#EXTERNAL"; done
```

2.5 Setting shared storage NAS Synology

Connect to NAS web interface by typing the IP address of the NAS device in the web browser.

Enable NFS service:

Open – Control panel > Win/Mac/NFS > NFS service > Win/Mac/NFS > Enable NFS and click on use

Enable SSH service:

Open – Control panel > Terminal > Enable SSH Service

Open “Putty” tool for remote control on your PC, type in NAS IP address you want to share. Log in as „root“ by typing: root and password. You are remotely connected to NAS now.

Then type:

```
mkdir /volume1/iMM
mkdir /volume1/iMM/Video
mkdir /volume1/iMM/Video/Recording
mkdir /volume1/iMM/Video/Cameras
mkdir /volume1/iMM/Pictures
mkdir /volume1/iMM/Television
mkdir /volume1/iMM/Music
mkdir /volume1/iMM/Cameras
```

whilst volume 1 is a work folder (disk) intended for sharing.

You can find out The name of the folder by command `cat /etc/fstab` If the name differs, you have to change the names in the list of commands.

After creation of shared folders change authorisation to these folders by command:

```
chmod -R 777 /volume1/iMM/
```

Next command will export shared folders for access from other devices `vi /etc/exports`

Press enter and add the following line to the last line (if there is no last line, add it on the first one):

```
/volume1/iMM 192.168.88.0/255.255.255.0(rw,sync,no_subtree_check,no_root_squash)
```

You will do that by pressing letter “i” which enables typing, and copy the line, or write it manually; after typing press Esc and write letters “wq”.

In case of any doubts use the below manual: [Manual](#).

Setting of NAS sharing to client

Type the following command in terminal: “`sudo nano /etc/fstab`”

A window opens, at the end of which type the below line:

```
192.168.88.200:/volume1/iMM /mnt/nas nfs nfsvers=3, bg, _netdev, nolock, hard, rw, user 0 0
```

There is NAS device IP at the beginning of the line. (192.168.88.200)

Open the terminal and create symbolic links:

In -s /mnt/nas/Music/ Music

In -s /mnt/nas/Video/ Video

In -s /mnt/nas/Pictures/ Pictures

In -s /mnt/nas/Television/ Television

In -s /mnt/nas/Cameras/ Cameras

Then create a symbolic line for sharing by putting the following command in the terminal:

for path in Music Video Pictures do [! -L ~/"\$path/#EXTERNAL"] && ln -s /media ~//"\$path/#EXTERNAL" done

3.0 Configuration in iMM Control Center - iMM Server

iMM Control Center (the "iMM CC" hereinafter) is web interface serving for settings Connection server. iMM CC is activated upon entering the address <http://localhost:8080> (physically at iMM client) in your internet browser.

Login by your password in factory instalation is default: "admin" password "imm123"

The diagram illustrates the login interface of the iMM Control Center. It features a dark header bar with the text "iMM CONTROL CENTER". Below the header, there is a light gray input field containing the text "admin". A callout bubble labeled "Enter password" points to this field. Below the input field, there is a white input field containing a series of dots, representing a password. A callout bubble labeled "Confirm button" points to this field. To the right of the white input field, there is a dark button labeled "Login".

If iMM CC does not open, type folowing in terminal: `sudo /etc/init.d/imm-web admin restart`

! Default password, you can change in terminal: `passwd imm`

Bookmark Server

In bookmark **Server** you can control virtual servers (services), which are necessary for communication third party. For software diagnostic is possible each virtual server check status, stop or enforce run service.

IMM servers management:

ELKONET:

Status Start Stop

Elkonet server for communication with iNELS central unit

MIELE:

Status Start Stop

Miele server for communication with gateway XGW 2000, 3000

RF:

Status Start Stop

RF server for communication with eLAN-RF

RPC:

Status Start Stop

RPC server for communication with app iHC

Logitech media server:

Status Start Stop

Logitech media server for audiozones

Client GUI:

Kill GUI

Button for turn off IMM GUI

iMM servers management

In the section **iMM servers management** we can control the virtual servers running on the server via web interface.

IMM servers management:

ELKONET:

Status Start Stop

Elkonet server for communication with iNELS central unit

MIELE:

Status Start Stop

Miele server for communication with gateway XGW 2000, 3000

RF:

Status Start Stop

RF server for communication with eLAN-RF

RPC:

Status Start Stop

RPC server for communication with app iHC

Logitech media server:

Status Start Stop

Logitech media server for audiozones

Client GUI:

Kill GUI

Button for turn off iMM GUI

Bookmark Configuration

In bookmark **Configuration** is main settings important for properly function device IMM server. Machine ID and Licence key are preset in factory default.

Settings

IP address of central unit: 10.10.5.186 Password central unit (optional): Password: Password: ASCII port (optional): 1130

IP of iNELS CU: 192.168.88.198 IP address of IMM server: 7328bb0c1d0a2cc8edd2395f45a627c0

Machine ID: ca58cfc596d30459 ID key, Licence key

Licence key: update Load iNELS3 export Delete iNELS3 export Delete export

Upload or edit export.pub Save, update Load export from CU

Upload: Browse... No file selected. Upload Load export.pub file

Find the file export.pub

```
SA3-06M_RE1_000020 R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE1_000020_ON R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE1_000020_OFF R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020 R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020_ON R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020_OFF R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020 R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020_ON R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020_OFF R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020 R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020_ON R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020_OFF R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020 R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020_ON R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020_OFF R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020 R B 16908294 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020_ON R B 16908294 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020_OFF R B 16908294 .0 BOOL PUB_INOUT
DA3-22M_IN1_000021 R B 16842753 .0 BOOL PUB_INOUT
DA3-22M_IN2_000021 R B 16842754 .0 BOOL PUB_INOUT
DA3-22M_OVT-ALERT1_000021 R B 17235969 .0 BOOL PUB_INOUT
```

update Update changes made in the list of elements from export.pub file

Settings

In the section **Settings** is main configuration for IMM server as IP address central unit, IMM server and Logitech media serveru (LMS). Machine ID and Licence key is preset at the factory.

IP address format:

If central unit is behind the NAT or in the other network and routers is possible use port forwarding. You can set port forwarded (on router) to communication port central unit (CU2 port 61682 ,CU3 port 9999).

Version CU	Format	Example:
CU2	[IPADDRESS]:[COMUNICATION_PORT]	10.5.15.12:8454
CU3	[IPADDRESS]:[HTTP_PORT]:[COMUNICATION_PORT]	10.5.15.12:8080:4562

Communication port - Elkonet for IMM server, Connection server, App iHC

HTTP port - is webserver CU3 with save file export.imm usually http://IPADDRESS/immfiles/export.imm

ASCI port - port for comunication CU3 using third-party protocol (telnet) for proper function you must set first port in IDM software (optional)

Password - password for acces and control central unit set in IDM software (optional user password)

Example setup menu settings:

Settings

Insert IP address of central unit

Password from CU3 setup in iDM software

IP of iNELS CU: 10.10.5.186 Password:

ASCII port (optional): 1130

Insert IP address of IMM server

IP of IMM Server: 192.168.88.198

Machine ID: 7328bb0c1d0a2cc8edd2395f45a627c0

ID key

Licence key: ca58cfc596d30459

Licence key

update Load iNELS3 export Delete iNELS3 export

Licence key

Save, update

Load export from CU iNELS3

Delete export from IMM server

Upload or edit export.pub

In the section **Upload or edit export.pub** you can upload export.pub file from software IDM to iMM Server and manual edit elements in web browser.

Upload or edit export.pub

Upload: No file selected.

Find the file export.pub only for CU2

```
SA3-06M_RE1_000020 R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE1_000020_ON R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE1_000020_OFF R B 16908289 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020 R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020_ON R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE2_000020_OFF R B 16908290 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020 R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020_ON R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE3_000020_OFF R B 16908291 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020 R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020_ON R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE4_000020_OFF R B 16908292 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020 R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020_ON R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE5_000020_OFF R B 16908293 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020 R B 16908294 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020_ON R B 16908294 .0 BOOL PUB_INOUT
SA3-06M_RE6_000020_OFF R B 16908294 .0 BOOL PUB_INOUT
DA3-22M_IN1_000021 R B 16842753 .0 BOOL PUB_INOUT
DA3-22M_IN2_000021 R B 16842754 .0 BOOL PUB_INOUT
DA3-22M_OUT1_000021 Y B 17039361 REAL PUB_INOUT
```

List of elements in file export.pub

Button update save changes made in window to export file

! **Function for upload export.pub is only for central unit iNELS 2**

! **In the central unit iNELS3 will download export automatically when you press Load iNELS3 export button.**

i **In list we can add and remove elements manually**

Bookmark System

In bookmark **System** you can configure additional, network settings which will be stored on static IP address and disable option in Network manager in ubuntu. We recommend setting a static IP address for IMM.

Other buttons offers: Recovery network manager - enable Network manager in Ubuntu

Shutdown - turn off IMM server

Restart server - reboot IMM server

Restart server regulary - schedule restart server at a specified time in a week

NFS server configuration - update share settings for IMM server

The screenshot shows a web-based network configuration interface. At the top, there are five callout boxes: 'Network switch' pointing to the 'Network settings' header, 'IP address subnet connected IMM server' pointing to the IP field, 'Netmask subnet' pointing to the Netmask field, 'Gateway (router)' pointing to the Gateway field, and 'DNS server' pointing to the DNS field. The 'Network settings' section includes a radio button for 'DHCP' (unchecked) and a radio button for 'IP' (checked). The IP field contains '192.168.88.71', the Netmask field contains '255.255.255.0', the Gateway field contains '192.168.88.1', and the DNS field contains '8.8.8.8'. Below these fields is a 'Save' button with a callout 'Save network settings'. The 'Recovery network manager' section has a 'Recover' button with a callout 'Recover network settings for network manager'. The 'Shutdown server' section has a 'Shutdown' button with a callout 'Shutdown IMM server'. The 'Restart server' section has a 'Restart' button with a callout 'Restart IMM server'. The 'NFS Server Configuration' section has an 'Update' button with a callout 'Updating the setting NFS shares'.

Network settings

☐ DHCP
☒ IP: 192.168.88.71 Netmask: 255.255.255.0 Gateway: 192.168.88.1 DNS: 8.8.8.8

Save Save network settings

Recovery network manager

Recover Recover network settings for network manager

Shutdown server

Shutdown Shutdown IMM server

Restart server

Restart Restart IMM server

NFS Server Configuration

Update Updating the setting NFS shares

Network settings


In the section **Network settings** you can set IP address manually as static or dynamically allocate by DHCP server.

Example setup static IP address:

The screenshot shows the 'Network settings' window. At the top, there are four callout boxes: 'Set IP address' pointing to the IP field, 'Set network mask' pointing to the Netmask field, 'Set gateway router' pointing to the Gateway field, and 'Set DNS server Router / ISP' pointing to the DNS field. Below these, the 'DHCP' option is unselected, and the 'IP' option is selected. The IP field contains '192.168.88.71', the Netmask field contains '255.255.255.0', the Gateway field contains '192.168.88.1', and the DNS field contains '8.8.8.8'. At the bottom, there are three buttons: 'Save', 'Switch to IP', and 'Save settings'. A callout box 'Save settings' points to the 'Save settings' button.

! **Set static IP address deactivate LAN settings in Network manager**  **function you can restore in menu Recovery network manager.**

! **Set static IP address is recommended for stable use. Information about network settings IP address, [link](#)**

 **If you are using a dynamic IP address from DHCP server set the router to allocate always the same IP addresses based on MAC addresses.**

Recover network manager

Button **Recover** is use to restore lan settings Network manager, which was deactivated by setting Static IP address in the Network Settings.

Recovery network manager

Recover

Recover network settings for network manager

Shutdown server

Press down **Shutdown** button to power off iMM server from a web interface.

Shutdown server



Restart server

Press down the **Reset** button to restart IMM server from a Web interface.

Restart server



Restart server regularly

In the section **Restart server regularly** we can set up scheduled restart the server at a specified time in a week.

Example settings restart server in monday six minut after the midnight.

The image shows a user interface for setting a regular server restart. The title is "Restart server regularly". Below the title are four input fields: a minutes field containing "6", a separator ":", a unit "m", an hours field containing "0", a separator ":", a unit "h", a day-of-week dropdown menu currently showing "Sunday", and a separator "d". To the right of these fields are two buttons: "Set" and "Delete".

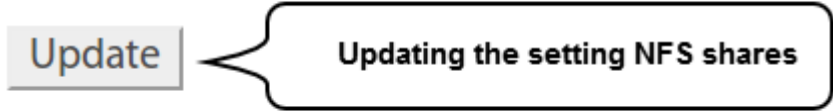
Callouts (speech bubbles) point to the following elements:

- "Set day of the week" points to the day-of-week dropdown menu.
- "Delete settings" points to the "Delete" button.
- "Set the minutes" points to the minutes input field.
- "Set the hours" points to the hours input field.
- "Save settings" points to the "Set" button.

NFS Server configuration

Press down **Update** button to refresh NFS sharing settings in the file `/etc/fstab`. from a web interface.

NFS Server Configuration



Bookmark HA-BUS

In bookmark **HA-BUS** we can use for interconnection iNELS3 BUS and decentralized control system KNX/EIB, which allows control from iHC app or floorplan.

Second function to add more iNELS3 central unit.

Requirements for connect with KNX/EIB: Central unit iNELS or more

Router KNX

Export group address from program ETS3 - 5

Example connection with iNELS3 CU:

First, enter the IP address of the central unit iNELS3 next fill password (optional) and note to finish press down button Add. After saving the settings will download export from central unit and elements will be added prefix "inels3" last letter (A-H) identify rank.

iNELS3

Insert IP address of iNELS3 CU

Insert password set in the IDM software

Insert note (first part of prefix)

IP of iNELS3 CU: 10.10.5.186 Password: ***** Note: House Add

Fill IP address KNX router and Save button. After save settings was performed put export file group address (see [KNX export group address](#)) and load export to system. Now you can check bookmark Configuration whether the excerpt elements KNX, If yes you go to the tab Rooms and put in a selected room features KNX.

KNX

Set IP address of KNX router

IP of KNX Gateway: 10.10.0.139

Save Delete Browse... No file selected. Upload KNX export Load export

Save IP address Delete settings Find the export file from ETS3

Example add device KNX to rooms in bookmark Rooms:

The interface shows a form for adding a device. It has several fields and buttons:

- Type**: A dropdown menu with "on/off" selected. Callout: "Select icon".
- Name**: A text input field with "Switch_A". Callout: "Set name".
- Row**: A dropdown menu with "5" selected. Callout: "Select row".
- Column**: A text input field with "1". Callout: "Select column".
- Attributes**: A dropdown menu with "inels knx_Switch_A" selected. Callout: "Select KNX element".
- Add**: A button. Callout: "Add element to list".

Type	Name	Row	Column	Attributes
on/off	Switch_A	5	1	inels knx_Switch_A

! This manual does not describe the setting elements KNX only link two systems among themselves.

iNELS3

First, enter the IP address of the central unit iNELS3 and Add. After saving the settings will download export from central unit and elements will be added prefix "inels3" last letter (A-H) identify rank.

iNELS3

Insert IP address of iNELS3 CU

Insert password set in the IDM software

Insert note (first part of prefix)

IP of iNELS3 CU: 10.10.5.186

Password: *****

Note: House

Add

inels3A	10.10.5.186	House	<u>reload iNELS3 export</u>	<u>Remove</u>
---------	-------------	-------	-----------------------------	---------------

Prefix inels3A

Reload export selected CU

Remove CU from list

The prefix consists of two parts first one is **"inels3"** and second **"A"** (last char A-H) distinguishes, letter central unit between themselves.

For correct function with KNX would have filled a part of the [KNX](#).

! If the central unit does not have a password set, Password field will be empty.

i Names without prefix in rooms will be converted automatically.

i For last hardware revision IMM-V4 is possible add up to 8 pcs iNELS3 central unit.

KNX

Enter the IP address of the router KNX and press **Save** button. After saving the configuration file we find export group addresses from the program ETS3 or higher and upload KNX exports.

The screenshot shows a web interface for configuring a KNX system. At the top, the title "KNX" is displayed. Below it, a label "IP of KNX Gateway:" is followed by a text input field containing the IP address "10.10.0.139". A callout bubble points to this field with the text "Set IP address of KNX router". Below the input field is a row of four buttons: "Save", "Delete", "Browse...", and "Upload KNX export". A callout bubble points to the "Save" button with the text "Save IP address". Another callout bubble points to the "Delete" button with the text "Delete settings". A third callout bubble points to the "Browse..." button with the text "Find the export file from ETS3". To the right of the "Browse..." button is a text label "No file selected.". A fourth callout bubble points to the "Upload KNX export" button with the text "Load export".

KNX

IP of KNX Gateway: 10.10.0.139

Save Delete Browse... No file selected. Upload KNX export

Save IP address Delete settings Find the export file from ETS3 Load export

Check Configurations in the bookmark that contains a list of export elements KNX, if so go to bookmarks rooms and put in a selected room features KNX.

Add KNX element to the Rooms

KNX elements put into a room in the same way as the elements iNELS, KNX recognise by prefixing "knx_".

Example add KNX device to rooms:

The form consists of several input fields and buttons, each with a callout box explaining its function:

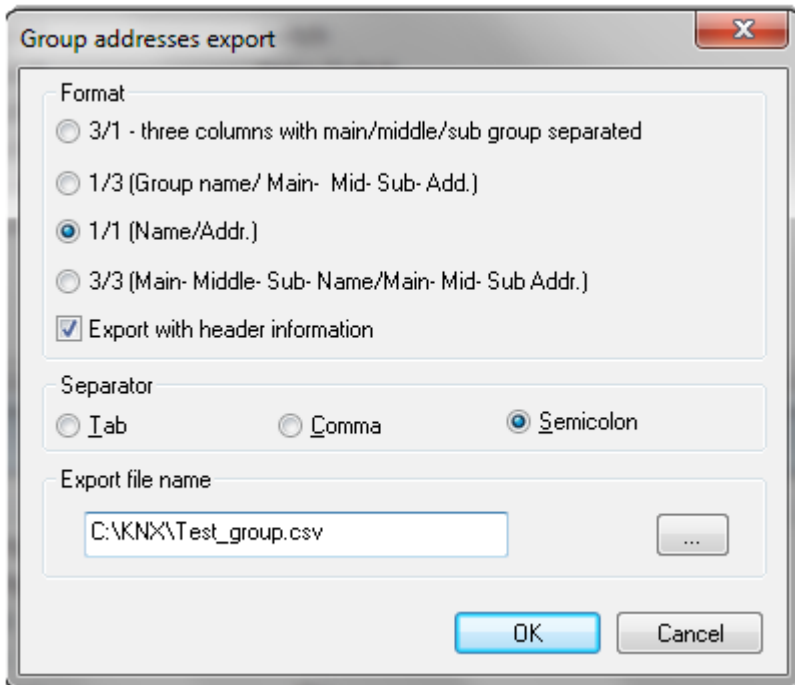
- Type**: A dropdown menu with the value "on/off". Callout: "Select icon".
- Name**: A text input field with the value "Switch_A". Callout: "Set name".
- Row**: A dropdown menu with the value "5". Callout: "Select row".
- Column**: A text input field with the value "1". Callout: "Select column".
- Attributes**: A dropdown menu with the value "inels knx_Switch_A". Callout: "Select KNX element".
- Add**: A button. Callout: "Add element to list".

Type	Name	Row	Column	Attributes
on/off	Switch_A	5	1	inels knx_Switch_A

KNX export group address

Export group addresses to format: 1/1 (Name/Addr.) separate semicolon (;) the ETS 3 or higher.

Example export group addresses from ETS:



Before inserting the export it need to be more adapted behind the semicolon refill data type according element values (True, False, 0-255, 0-100) see. KNX DPT [link](#)

Example of data in a file supplemented Test_group.csv:

```
"Group name";"Address"
Dimming;0/-/
New Middle Group;0/0/-
Dim A;0/0/1;5
Dim B;0/0/2;5
Switching;1/-/
New Middle Group;1/0/-
D;1/0/0;1
switch A;1/0/1;1
switch BCD;1/0/2;1
Shutters;2/-/
New Middle Group;2/0/-
Shutters1;2/0/1
Shutters2;2/0/2
Sensors;3/-/
New Middle Group;3/0/-
Temperature;3/0/0;9
```

A switch in example; 1/0/1; 1 has value as shown in Table 1 behind a semicon (True, False) means that a switch.

Data type	Data	Type	Value
-----------	------	------	-------

1	1 bit	bool	True False
5	8 bit	num	0-255
5.001	8 bit	num	0-100
6	8 bit	num	-128 +127
232	3 byte	num	RGB [0,0,0] - [255,255,255]

Bookmark RF Configuration

Communication between wireless RF devices and IMM is required smart box eLAN-RF. RF devices add to FP the same way as INELS elements. Just need to check the box below the list of RF devices.

Settings

ELAN RF address:

IP address e-LAN RF

Save

Save settings

To configure the RF devices:

a) The list of supported INELS RF devices

RF Control actuators divisions		
Switching	Dimming	Blinds
RFSA-11B	RFDA-11B	RFJA-12B/230V
RFSA-6x*	RFDA-71B	RFJA-12B/24V DC
RFDAC-71B	RFDAC-71B	
RFSAI-61B	RFDEL-71B	
RFUS-11	RFDSC-11	
RFUS-61	RFDSC-71	
RFSC-11		
RFSC-61		

b) For add wireless RF devices to floorplan check the box "RF"

*i*

Settings

For control RF devices in menu **Settings** insert IP address device eLAN-RF, which must already be configured from the web interface or applications IHC-MARF see. manual eLAN-RF.

Example settings:

Settings

ELAN RF address:

Save

Save settings

IP address e-LAN RF

Bookmark Zones

Bookmark **Zones** is used to configure the zones for IMM server. In this menu adds the name and IP address Videozone for client GUI all switches set to "no" .

New zone

In the menu **New zone** configure zones for IMM server (Videozone, Audiozone, Giom, a Virtual zone)

Options selected zones:

vodeozone	Videozone: for IMM clients create as zone if all switch set to "no"
squeezebox	Audiozone: Audiozone-R, Squeezeboxs (Logitech) and Laras
giom	Meteostation: Giom 3000
virtual zone	Control virtual zone: amplifier and other players by device eLAN IR using control buutons in IMM

New zone

The screenshot shows the 'New zone' configuration form with the following fields and callouts:

- Name**: A text input field with a callout 'Set name of zone'.
- IP address**: A text input field with a callout 'Set IP address zone'.
- Is it squeezebox ?**: A dropdown menu with 'no' selected, with a callout 'Switch for audiozone (Lara, Squeezebox)'.
- Is it giom ?**: A dropdown menu with 'no' selected, with a callout 'Switch for giom zone'.
- Is it virtual zone ?**: A dropdown menu with 'no' selected, with a callout 'Switch for virtual zone'.
- create**: A button with a callout 'Create zone'.

Defined zone

In the menu **Defined zone** are displays saved zones.

View already stored zone:

Defined zones

IP address created zone

Name	IP address	Is squeezebox	
IMM	192.168.88.71	no	Remove
Lara	192.168.88.94	yes	Remove
Giom_show	10.10.5.59	no	Remove

Remove zone

Names created zone

Type of zone

New zone

In the section **New zone** configure zones for IMM server (Videozone, Audiozone, Giom, a Virtual zone)

vodeozone	Videozone: for IMM clients create as zone if all switch set to "no"
squeezebox	Audiozone: Audiozone-R, Squeezeboxs (Logitech) and Laras
giom	Meteostation: Giom 3000
virtual zone	Control virtual zone: amplifier and other players by device eLAN IR using control buutons in IMM

New zone

The diagram illustrates the 'New zone' form with the following fields and callouts:

- Name:** A text input field with a callout: "Set name of zone".
- IP address:** A text input field with a callout: "Set IP address zone".
- Is it squeezebox ?**: A dropdown menu with "no" selected. A callout: "Switch for audiozone (Lara, Squeezebox)".
- Is it giom ?**: A dropdown menu with "no" selected. A callout: "Switch for giom zone".
- Is it virtual zone ?**: A dropdown menu with "no" selected. A callout: "Switch for virtual zone".
- create**: A button with a callout: "Create zone".

No zone defined

You do not have any saved zone to create a zone, go to create **New zone**

No zone defined

Defined zone

In the section **Defined zone** are displays saved zones.

View already stored zone:

Defined zones

IP address created zone

Name	IP address	Is squeezebox	
IMM	192.168.88.71	no	Remove
Lara	192.168.88.94	yes	Remove
Giom_show	10.10.5.59	no	Remove

Remove zone

Names created zone

Type of zone squeezebox

Defined virtual zones

In the section **Defined virtual zones** are show saved zones which can be edit [Configure](#) button.

Defined virtual zones

Remove Virtual zone

Name	IP address		
Samsung-TV	10.10.5.195	Configure	Remove

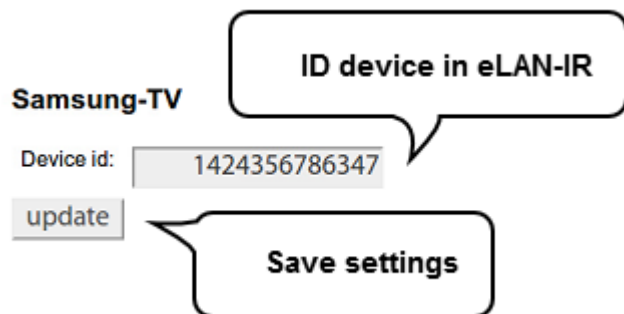
IP address eLAN-IR

Configure ID device

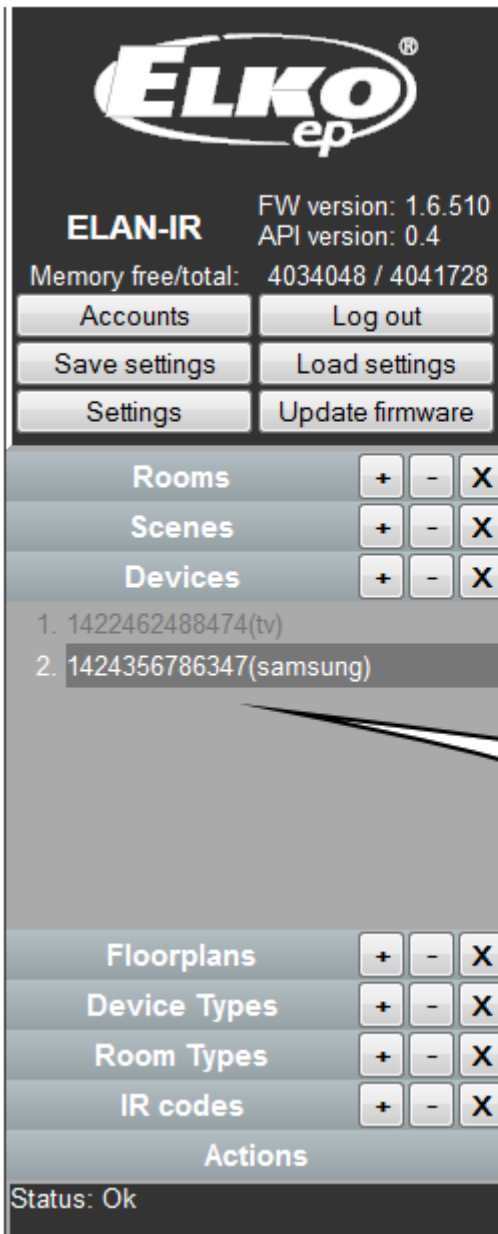
Configure

Configuration button to edit the selected virtual zone where we can continue to set the device ID in web interface eLAN-IR or app iHC-MAIR, iHC-MIIR.

Example:



Example: Device ID number set equipment is located in web interface eLAN-IR in bookmark Devices



ID device for control virtualzone

! Control device for Virtualzone must be stored in Elan IR. Device you can setup via app iHC-MAIR, iHC-MIIR.

Bookmark Houses

Bookmark **Houses** is used to configure the scenes when entering or leaving the house. In app iHC-MA is function call "Monitoring arriving home", which recognizes the different technologies that the user is coming to your home and starts the scene enterHouse more detail about this function in manual app iHC-MA.

Scene

enterHouse [Edit](#)

exitHouse [Edit](#)

Edit scene after entry house

Edit scene after exit house

Example create a scene enterHouse:

enterHouse

Select element

Set relay state 0 for OFF or 1 for ON

SA2_04M_Sn_RE4

1

Add event

Add event action

Saved relays with state in the scene enterHouse:

Defined events

List of relays and states

SA2_04M_Sn_RE2 1 [Remove](#)

SA2_04M_Sn_RE4 1 [Remove](#)

Possible remove element

! For proper function must be enabled on your mobile GPS, and Google Location, mobile data and active connection to IMM server.

Scene

In the section **Scene** configure scene for entering or leaving the house. In app iHC-MA is function call "Monitoring arriving home", which recognizes the different technologies that the user is coming to your home and starts the scene enterHouse more detail about this function in manual app iHC-MA.

Scene

enterHouse Edit

exitHouse Edit

Edit scene after entry house

Edit scene after exit house

! For proper function must be enabled on your mobile GPS, and Google Location, mobile data and active connection to IMM server.

Edit enterHouse or exitHouse

Edit scene **enterHouse** or **Exit House**...

Scene

Edit scene after entry house

enterHouse [Edit](#)

exitHouse [Edit](#)

Edit scene after exit house

Example add elemets to scene enterHouse:

enterHouse

Select element

Set relay state 0 for OFF or 1 for ON

SA2_04M_Sn_RE4

1

Add event

Add event action

Example add elemets to scene exitHouse:

exitHouse

Select element

Set relay state 0 for OFF or 1 for ON

SA2_04M_Sn_RE1

1

Add event

Add event action

Security Scan

Security Scan is a security feature that checks the status of Miele appliances if you are running is displayed in the table Security scan report for all video zones iMM. Security scan can be set to monitor the status of selected elements in the house.

Trigger relays

Select relay

Add control element

IDRT2_1_DOWN

Add

SA2_04M_Sn_RE2 [Remove](#)

Notify me if device obtains following state

Select relay

Add element to the list

IDRT2_1_DOWN

Add

SA2_04M_Sn_RE4 1 [Remove](#)

State of control relay 1 or 0 (ON/OFF)

! Security function - Security scan not finish in all iHC app only in Videozone iMM.

Trigger relays

In the section **Trigger relays** is main configuration for security relay for notify about preset states devices and Miele appliances.

Trigger relays

Select relay

Add control element

IDRT2_1_DOWN

Add

SA2_04M_Sn_RE2 [Remove](#)

Notify me if device obtains following state

Select relay

Add element
to the list

IDRT2_1_DOWN

Add

SA2_04M_Sn_RE4 1 [Remove](#)

State of control relay 1 or 0 (ON/OFF)

Notify me if device obtains folowing state

In the section **Notify me if device obtains folowing state** you can set condition monitoring state relay.

Example Security Scan:

Trigger relays

IDRT2_1_DOWN

Add

Select relay

Add control element

SA2_04M_Sn_RE2 [Remove](#)

Notify me if device obtains following state

IDRT2_1_DOWN

Add

Select relay

Add element
to the list

SA2_04M_Sn_RE4 1 [Remove](#)

State of control relay 1 or 0 (ON/OFF)

EventScript

In bookmark **EventScript** created events based on which the preset start script. The event is performed if the element reaches the set value of the event. You can use different kinds of elements relay, DAC. etc ..

Trigger Rules

Unicate key (hex with prefix)

Value (dec)

Path to script

Add

Insert unicate key device in format 0x00000000

Value to run script

Add event

Absolute path of the directory is script located

!EventScript use ASCII protocol, whitch must be turn on in IDM program to free port and in bookmark Configuration in IMM CC insert ASCII port for comunication.

Trigger Rules

In the section **Tringer Rules** you can create event based on which the run script.

Example created event :

Unicate key device

Trigger Rules

Unicate key (hex with prefix)

Value (dec)

Path to script

Add

Add create event

Absolute path to script .py

0x01020001 1 /etc/imm/Open_windows.py [Remove](#)

Remove record script

Depending on the setting ASCII protocol set value in hex or DEC example.
50 in (HEX) is 80 (DEC)

EventScript run with all device modes (HEX , HEX with prefix and DECIMAL)

Bookmark Multirooms

Bookmark **Multiroom** allows you to set the synchronized playback to several audio zone. Mutiroom create inserting predefined zone's to multiroom.

Supported are: Audiozone-R, Logitech Squeezebox, a videozone IMM.

! Lara do not yet support multiroom

New multiroom

Name

create

Set name of Multiroom

Create Multiroom

Defined multirooms

M-Multi zone

Edit

Remove

Delete Multiroom

Edit selected Multiroom

New multiroom

In the section **New multiroom** created rooms which you can assign multiple audiozón for synchronized playback.

Supported are: Audiozone-R, Logitech Squeezebox, a video zone iMM Client.

! Lara do not yet support multiroom

New multiroom

Name

create

Set name of Multiroom

Create Multiroom

Defined multirooms

M-Multi zone

Edit

Remove

Delete Multiroom

Edit selected Multiroom

Defined multirooms

In the section **Defined multiroom** you can modify and delete created multirooms.

New multiroom

Name

create

Set name of Multiroom

Create Multiroom

Defined multirooms

M-Multi zone

[Edit](#)

[Remove](#)

Delete Multiroom

Edit selected Multiroom

Add to Multiroom

When editing room to display audio zones in selected room key Add to Multiroom we can add the selected zone into the Multi zone.

Example edit Multi zone:

M-Multi zone

Zone

Test zone

▼

Add to Multiroom

Add delected zone to the Multi zone

Defined zones

LaraS

[Remove](#)

squeeze_radio

[Remove](#)

Test zone

[Remove](#)

Remove selected room from multizone

No zone defined

You do not have any saved zone (Multiroom) to create a zone, go to menu create [New multirooms](#)

No zone defined

Bookmark A/C

Bookmark A/C is used to define the air-conditioning or heat recovery by third parties and their control through the application iHC.

Supported are:

LG Clims
CoolMaster, CoolMasterNet
Air Pohoda
Atrea
Universal 0-10V

LG Clims over the modul PI-485 over Advantech Adam 4571



CoolMaster series 1000D, 2000S, 3000T, 4000M, 6000L, 7000F, 8000HM, 9000M, CoolMasterNet over Advantech Adam 4571



CoolMasterNet



Daikin
Fujitsu
Gree
Hitachi
Intensity
Kentatsu
LG
Midea

DK)	Mitsubishi Electric	(ME)
(FJ)	Mitsubishi Heavy	(MH)
(GR)	Panasonic	(PN)
(HT)	Samsung	(SM)
(MD)	Sanyo	(SA)
(KT)	Toshiba	(TO)
(LG)	Trane	(TR)
(MD)	Compatibility: indoor, outdoor unit link	

Other:

Atrea Duplex 180 EC4 P (0-10), Duplex 180 EC4 P (0-100)

AiRPohoda by Adam 4571

Universal 0-10V by DAC 0-10V

LG Clims

In the section **LG Clims** is used to define air conditioning LG corporation. Supported are units with communications board **PI485**. LG air conditioning must be installed via RS485 - LAN, for example through device Advantech Adam 4571

LG clim

The form contains the following fields and callouts:

- Name**: Text input field. Callout: **Set name air-conditioning**
- Type**: Dropdown menu showing "LG PI485". Callout: **Select type of communication gateway**
- Connection (ip_address:port)**: Two text input fields separated by a colon. Callout: **Set IP addressu and port**
- Group**: Text input field. Callout: **Select group**
- Unit**: Text input field.
- save LG**: Button. Callout: **Save settings**
- Callout: **Select number air conditioning** (points to the Unit field)

Example saved LG unit:

LG climatizations

Name	Type	Connection	Group	Unit	
MG	lg_pi485	10.10.1.235:10001	0	4	<button>Remove</button>

CoolMaster

Is used to define air conditioning by universal control unit Coolmaster and control through the application iHC.

Firs step:

First, set the control unit Coolmaster according to the manufacturer's manual. (usually via DIP switches inside the unit) Setup converter LAN-serial485 (Recommended converter: Adam 4571) according to Coolmaster manual and connect converter with control unit Coolmaster.

Test comunication:

If the air conditioner control unit is properly connected to Coolmaster the display alternately displays the temperature and mode.

Second step:

Moving on to set the air conditioner in the web interface, <http://localhost:8080/clims> and fill name and IP address convertor and press **button Save the settings** wait for load UID air condition in system. Now you can select the number of units and save CoolMaster unit.

! If unsuccessful use reload button and check the air conditioning load UID communication converter with CoolMaster according to the manual.

	CoolMaster Settings		CoolMaster unit	
Select type unit	Type 1000D		Name <input type="text"/>	
Set IP address	Connection (ip_address) <input type="text"/>		UID reload	Select name of CoolMaster
Save settings	save CoolMaster settings		save CoolMaster unit	Save settings
		Select number UID CoolMaster unit		

Example stored Coomaster unit :

CoolMaster

Name	UID	
Coolmaster	101	<button>Remove</button>

For older Coolmasters version is necessary to set convertor to appropriate port.

Coolmaster type: 1000D, 2000S, 3000T, 4000M, 6000L, 7000F, 8000I(HM), 9000M

Convertor: Adam 4571 or Gnome 485

Port: 10001

CoolMasterNet (default setup)

Port: 10102

Perform the function check via utility ncat command format:

ncat IPADDRESS PORT

Example ncat in terminal:

	Command	Significance
Command	ncat 10.10.10.111 10102	Connection to Cooler Master / Convertor
Answer	>	Returns the character command line
Command	stat2	List states Air conditions
Answer	000 OFF 25C 27,80C High Heat OK 0	Return state Air condition

For windows you can use SPU (Serial port utility)

 Commands and pin setup for cable connection air condition can be found in the reference manual for example: [CoolMasterNet](#)

 **Maximal number of simultaneous connections for CoolMasterNet is 4 for convertor Adam 4571 only 2.**

Air Pohoda

Is used to define Air recovery call Air pohoda and control through app iHC.
AirPohoda air recovery must be connected via RS485 - LAN, for example through device
Advantech Adam 4571.

AiRPohoda

Type

AiRPohoda

Connection (ip_address)

save AiRPohoda

Select type unit

Select IP address

Save settings

Example saved Air recovery:

AiRPohoda

Name	Type	Connection	
Air	Air	10.10.3.206	Remove

Atrea

Is used to define Air recovery call Atrea and control through app iHC or FP.
Atrea Air recovery must be installed via RS485 - LAN, for example through device Advantech Adam 4571.

Atrea

The diagram shows a configuration form for 'Atrea' with three main fields and three callout boxes:

- Type**: A dropdown menu showing 'Duplex 180 EC4.D'. A callout box labeled 'Select type unit' points to this field.
- Connection (ip_address)**: A text input field. A callout box labeled 'Set IP address' points to this field.
- save Atrea**: A button. A callout box labeled 'Save settings' points to this button.

Example save Air recovery:

Atrea

Name	Type	Connection	
Atrea	atrea_Duplex_180_EC4D	10.10.3.207:502	<button>Remove</button>

Universal 0-10V

Is used to define universal air conditioning using DAC 0-10V and control through app iHC.

Universal 0-10 V

The screenshot shows the configuration interface for a Universal 0-10 V air conditioning system. It includes input fields for Name, Maximal temperature, and Minimal temperature, each with a callout: 'Set name climatization', 'Set maximal temperature climatization', and 'Set mminimum temperature climatization' respectively. Below these are dropdown menus for Temperature control, Heating, Cooling, and Thermometer, all set to 'DAC3-04M_OUT3_01013d', with a callout 'Select control over DAC' pointing to the Heating dropdown. A 'save Universal' button is at the bottom with a callout 'Save settings'.

Name

Maximal temperature

Minimal temperature

Temperature control

Heating

Cooling

Thermometer

save Universal

Set name climatization

Set maximal temperature climatization

Set mminimum temperature climatization

Select control over DAC

Select temperature sensor

Save settings

Example save air condition:

Universal 0-10 V

Name	Maximal temperature	Minimal temperature	
Aircondition_1	36	17	Remove

Bookmark Rooms

Bookmark Rooms is used to configuration souboru rooms.cfg, for loading applications iHC..
More information in the manual iHC. Rooms are actually "virtual rooms" (groups), which have the option to group the icons and zones for one or more screens.

New room

Name

Set name of room

Protect by password

☐

Set password for room

Add

Crete room

Name rooms

Edit room

Edit password of room

Rename room

Move room up

Move room down

Remove selected room

<u>_global_</u>	<u>Edit</u>					
Hotel	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>
House	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>
Villa	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>

! Name of room allows the use only characters A-Z, a-z, 0-9, -_.

New room

Used to define rooms for applications iHC.

New room

Name

Set name of room

Protect by password ☐

Set password for room

Add

Crete room

Example imposed rooms:

Name rooms

Edit room

Edit password of room

Rename room

<u>_global_</u>	<u>Edit</u>					
Hotel	<u>Edit</u>	Up	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>
House	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>
Villa	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>

Move room up

Move room down

Remove selected room

! Pro název místnosti můžeme použít pouze znaky A-Z, a-z, 0-9, -, _.

List of rooms

Listing stored rooms on the server for applications iHC.

The diagram illustrates a user interface for managing a list of rooms. The interface consists of a table with three rows of room data and a header row. Each row contains a room name followed by several action links. Surrounding the table are six callout boxes, each pointing to a specific element in the interface:

- Name rooms**: Points to the header row of the table.
- Edit room**: Points to the Edit link in the first data row.
- Edit password of room**: Points to the Set password link in the first data row.
- Rename room**: Points to the Rename link in the first data row.
- Move room up**: Points to the Up link in the first data row.
- Move room down**: Points to the Down link in the first data row.
- Remove selected room**: Points to the Remove link in the first data row.

<u>_global_</u>	<u>Edit</u>						
Hotel	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>	
House	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>	
Villa	<u>Edit</u>	<u>Up</u>	<u>Down</u>	<u>Set password</u>	<u>Rename</u>	<u>Remove</u>	

Devices of rooms

In menu **Devices of room** is used for editing rooms for application iHC.

Devices of room *House*

Add new device Select Row and Column for icon

Recommended lenght of the item "Name" is 6 characters. If the lenght is longer then it does not display correctly.

Type: airing : Name: Row: 2 : Column: inels DA3-22M_IN1_000021 : Attributes: read_only: no : Select specific device

Add device Add Select Type Insert name Switch icon read only yes/no

Row	Name	Type	Column	Attributes	Actions
1 :	Lights	blank	1	inels SA3-06M_RE6_000020 : read_only: no :	DOWN REMOVE
1 :	Frontage	light	2	inels SA3-06M_RE3_000020 : read_only: no :	UP DOWN REMOVE
5 :	On/Off	on/off	3	inels DA3-22M_IN1_000021 : read_only: yes :	UP DOWN REMOVE

Remove device

Thermo meters Rename device Change specific device and type Move Up or Down device

No thermo meters defined

Zones Giom zone (meteostation)

Zone name	Attributes	Actions
GIOM :	audio: no : video: no :	REMOVE
Living room :	audio: yes : video: no :	REMOVE
Hall :	audio: yes : video: no :	REMOVE
Garage :	audio: yes : video: no :	REMOVE

Remove zone

Save Save settings

Example add device to room House:

Devices of room House

Add new device

Recommended lenght of the item "Name" is 8 characters. If the lenght is longer then it does not display correctly.

Type	Name	Row	Column	Attributes
light	Main Light	1	inels	DA3-22M_OUT1_000021
				read_only no

Add

Type device (icon)

Switch for read only yes/no

Select specific device

Add device to list

Insert name for device

Row and Column for icon

 Read only is a feature that change icon fuction "no" control device or "yes" icon can't control only information about device state.

Example create scene:

Devices of room House

Add new device

Recommended lenght of the item "Name" is 8 characters. If the lenght is longer then it does not display correctly.

Type	Name	Row	Column	Attributes
scene	Shutters UP	6	abs_path	/etc/imm/ShuttersUP.py
				SA3-06M_RE4_000020

Add

Select scene type

Add one or more devices for scene

Option absolute path to script .py or .sh

Add scene

Select Row and Column

For scene control can be programmed to use a script that can execute various functions defined in it. It is necessary to keep an absolute path starting with "/" and ending with the suffix script ".py" (python).Example: /home/imm/skript_lights.py

 **Type device (icon filter devices) example. type Lamp filtred devices to dimmed devices.**

Rename

In the section **Rename** you can change name of room for app iHC.

Example rename "Room" to na Living room:

Room [Edit](#) [Up](#) Down [Set password](#) [Rename](#) [Remove](#)

Name of room

Click on Rename

New name for "Room ":

Livingroom

save

New name Livingroom

Save settings

Bookmark Cameras

Bookmark **Cameras** is used for define IP cameras, which you want monitor and control by application iHC. HTTP and RTSP port are filled only if you have an IP camera configured to access from outside local network. If the camera remotely connect via HTTP port, so you get to the web interface and you can fully control the camera. If via RTSP, then you will get only a stream cameras. More about setting and ports see. instruction manual for the camera. More about setting and ports see. manual for the camera.

If you do not fill HTTP or RTSP ports remain in default, HTTP port 80, RTSP port 554

New camera

Supported cameras are:

iNELS cam

AXIS protokolu VAPIX2 od verze firmwaru kamery 4.0.X.X a VAPIX3 od firmwaru 5.0.X.X

Kamery with Onvif protocol profile S. s certifikací Onvif [link](#)

Example integration cam Axis supported Onvif:

Connect the camera according to camera manual and create a user for protocol ONVIF might be different according to manufacturer. Setup a profile S video stream: for applications iHC to MJPEG, jpeg, rtsp and second stream rtsp for iMM client.

New camera

Name	Axis P5534 2
IP address	10.10.10.49
User	testOnvif
Password
HTTP port - iHC	845
RTSP port - iMM	5684
API	Select API
Manufacturer	Axis Communications AB
Product Name	AXIS P5534 Network Camera
Firmware version	5.40.9.4
Date Certified	12/11/2013

create

Create camera

Firmware version since which camera supported Onvif a date certification

Select type camera

Select manufacture IP camera

Set name for camera

Set IP address camera

Set user name

Set pass for Onvif account

Port for iHC app usually 80

Port for iMM client usually 554

Select Onvif



New camera

In the section **New camera** is used for define IP cameras.

Example integration cam Axis supported Onvif:

Connect the camera according to camera manual and create a user for protocol ONVIF might be different according to manufacturer. Setup a profile S video stream: for applications iHC to MJPEG, jpeg, rtsp and a second stream rtsp for iMM client.

New camera

Name	Axis P5534 2	Set name for camera
IP address	10.10.10.49	Set IP address camera
User	testOnvif	Set user name
Password	Set pass for Onvif account
HTTP port - iHC	845	Port for iHC app usually 80
RTSP port - iMM	5684	Port for iMM client usually 554
API	Select API	Select Onvif
Manufacturer	Axis Communications AB	Select manufacture IP camera
Product Name	AXIS P5534 Network Camera	
Firmware version	5.40.9.4	
Date Certified	12/11/2013	
<input type="button" value="create"/>		
<input type="button" value="Create camera"/>		

Select type camera

Firmware version since which camera supported Onvif a date certification

Add video profile for videozone iMM a mobile app iHC.

Axis P5534 2

Select stream for IMM

Select stream profile for IMM

balanced_h264

Select stream profile for mobile

mobile_h264

save

Select stream for app iHC

Save streams of camera

List saved cameras:

List of cameras

Name	IP address
Axis P5534	Remove

Save camera

Remove camera

Select the stream

In the section **Select the stream** you can choose specific camera streams assign to mobile app iHC.

Example:

Axis P5534 2

Select stream profile for iMM
balanced_h264

Select stream profile for mobile
mobile_h264

save

Select stream for iMM

Select stream for app iHC

Save streams of camera

No camera defined

In this section will be displayed set cameras iMM server.

List of cameras

Menu List of cameras show saved cameras iMM server and options for remove selected camera.

List of cameras

Name	IP address
Axis P5534	Remove

Save camera

Remove camera

Bookmark Miele

In bookmark **Miele** set IP adresu device Miele gateway, that serves remote control of appliances over powerline, or ZigBee protocol.

Supported are: XGW 2000, XGW 3000 (Firmware 1.1,1.2)

Miele

IP:

E-mail:

Relay:

Smart Grid:

IP address device Miele gateway XGW 2000, XGW 3000


E-mail for notice

Relay for restart GW

update

Update settings

Relay signaling Smart grid

 Set IP address MieleGateWay is stored in the file /etc/imm/miele

Miele

In the section **Miele** set IP adresu device Miele gateway, that serves remote control of appliances over powerline, or ZigBee protocol.

Supported are: XGW 2000, XGW 3000 (Firmware 1.1, 1.2)

IP address device Miele gateway XGW 2000, XGW 3000

Miele

IP:

E-mail:

Relay:

SA3-06M_RE3_000020

HDO:

SA3-06M_RE1_000020

update

E-mail for notice

Relay for restart GW

Update settings

Element Smart grid signal

 Set IP address MieleGateWay is stored in the file. /etc/imm/miele

 **Relay for restart GW is used for power off /on if gateway lost network connection and send notification on user email.**

Bookmark Dominus

Bookmark **Dominus** we can setup acces details for **ESS Milenium** of which can be read states via the protocol Domiline subsystem and numbers and reaction on changes through using system bits in electrical installations iNELS.

Dominus

IP address ESS Milenium

IP: port:

Communication port

Update settings

Sensors

Select system bit

line: module: input:

Line

Modul

Input

Add items to list

Dominus

In the section **Dominus** we can setup access details to ESS Millenium **IP** address and communication **port**.


Dominus

IP address ESS Milenium

IP: port:

Communication port

Update settings

 Motion sensor function can simulate the input resistor 3,9K

Connect to ESS Milenium software SetWterm

Check jumper set to position COM0 RS 232 or USB

Turn on remote control (instalation) on control keyboard Dominus MP4

Procedure:

- open temper turn off and turn on ESS unit or hardware reset button on motherboard
- enter to configuration botton 1 and waiting for signal
- 0-INITIALIZATION-SYSTEM
- 6-INSTALATION_TO_COMPUTER (must be connected within 5 minutes)
- start SetWterm load or upload saved configuration
- create space for history ESS and transaction records
- eventually create other user and password
- controller update

Calculation of the sensor:

Line - according to the program find SetWterm in our example, it is 2 (line b = 2, line a = 1)

Module - set by DIP switch on the module in our case 0

Input module (for example) MMR2 8 double balanced inputs

Formula calculation sensors: $17x (32x + \text{Line Module}) + \text{input}$

Example: First Sensor - input 1: $17x (32x2+0)+1 = 1089$

$17 \times (32 \times 2 + 0) + \text{Input} = 1088..1104$

or $17 \times (32 \times 2 + 31) = 1615-1630$ (when the dip switch set to zero)

Interpretation of the sensors in the log:

(X, Y, Z) (CONDITION ADDRESS _first part, ADDRESS_second part)

Example: Input 1 has an address of 1089 (status, 8, 65)

$Y = 1089/128 = 8$ integral

Z = the remainder after division

ie. $1089 \bmod 128 = 65$ (switch windows calculator in scientific mode and use function mod)

Sensors

In the section defined address **motion sensors Line Module, Input and pair to the system bit CU3**.
The sensors are read out dynamically without following the opening of the partition and write their state to a defined system bit.

Insert line

Modul

Number input

Assign system bit

Sensors

line: module: input:

SYSTEMBIT_0015

add

Add sensor

[2, 0, 1, 'SYSTEMBIT_0000']

Remove

[2, 0, 2, 'SYSTEMBIT_0001']

Remove

[2, 0, 3, 'SYSTEMBIT_0002']

Remove

[2, 0, 4, 'SYSTEMBIT_0003']

Remove

[2, 0, 5, 'SYSTEMBIT_0004']

Remove

[2, 0, 6, 'SYSTEMBIT_0005']

Remove

[2, 0, 7, 'SYSTEMBIT_0007']

Remove

[2, 0, 8, 'SYSTEMBIT_0008']

Remove

[2, 0, 9, 'SYSTEMBIT_0009']

Remove

[2, 0, 10, 'SYSTEMBIT_000A']

Remove

[2, 0, 11, 'SYSTEMBIT_000B']

Remove

[2, 0, 12, 'SYSTEMBIT_000C']

Remove

[2, 0, 13, 'SYSTEMBIT_000D']

Remove

[2, 0, 14, 'SYSTEMBIT_000E']

Remove

[2, 0, 15, 'SYSTEMBIT_000F']

Remove

[2, 0, 16, 'SYSTEMBIT_0010']

Remove

Remove sensor

Disturbed sensors

- system bit = 1

Disturbed in alarm

- systém bit = 1

Detector in calm

- systém bit = 0

Example: An alarm in the program SetTermW

Disruption of the alarm in the event that it is double balanced input connected and configured as part of the alarm.
If the sensor is in a state of disturbed alarm occurred in can be put to rest only by deactivating an alarm for example.
Pushbutton controller alarm.

Předdefinovaný vstup (Vstup 1b-00-000)

Linka/Karta:	Modul:	Vstup:
Linka 1b	Modul 00	Vstup 000 (0P)*
	Modul 01	Vstup 001 (0T)*
	Modul 31	Vstup 002 (1P)*
		Vstup 003 (1T)*
		Vstup 004 (2P)*
		Vstup 005 (2T)*
		Vstup 006 (3P)*
		Vstup 007 (3T)*
		Vstup 008 (4P)*

☐ Vstup přemostěn
 ☐ SW filtrace
 ☐ Předávat stav na PCO
☐ Inverzní polarita

 ☒ Předávat poplach na PCO

Priorita: 11-uživatel
 Uživatelský text: Vstup0 Poplach
 Podsystem: P0000: A/a PodsystemE2S

1. aktivita: žádná
 2. aktivita: žádná
 3. aktivita: žádná

Uklidnění: žádná

Typ vstupu

<input type="radio"/> Nepoužitý <input checked="" type="radio"/> Poplach <input type="radio"/> Poplach zpožděný <input type="radio"/> Poplach zpožděný vnitřní <input type="radio"/> Panika <input type="radio"/> Tamper-ochr.kont. <input type="radio"/> Předzvěst <input type="radio"/> Znamení <input type="radio"/> Záznam do historie <input type="radio"/> Nulování stavu <input type="radio"/> Automaticky nulovaný popl. <input type="radio"/> Výpadek síťového napájení <input type="radio"/> Porucha baterie <input type="radio"/> Zápisy do historie <input type="radio"/> Porucha <input type="radio"/> Ovládání podsystemu <input type="radio"/> Nulování událostí <input type="radio"/> Odchod <input type="radio"/> Odchod zpožděný <input type="radio"/> Odchod zpožděný vnitřní	<input type="radio"/> Kombinované <input type="radio"/> Kombinované zpožděné <input type="radio"/> Komb. zpožděné vnitřní <input type="radio"/> Indikační poplach <input type="radio"/> Indik. poplach zpožděný <input type="radio"/> Indik. popl. zpožd. vnitřní <input type="radio"/> Indikační panika <input type="radio"/> Indikační tamper <input type="radio"/> Indikační výpadek sítě <input type="radio"/> Indikační porucha baterie <input type="radio"/> Indikační záznam do hist. <input type="radio"/> Indikační odchod <input type="radio"/> Indikační odchod zpožd. <input type="radio"/> Indikační odch. zp. vnitřní <input type="radio"/> Požár <input type="radio"/> Hlídkání dveří <input type="radio"/> Otevření dveří <input type="radio"/> Evakuace
---	---

Linkový modul Dominor (MM1): poplach dvojité vyváženého vstupu n (Cn/P)

Example: Disturbed in alarm with the program SetTermW

For detecting the movement of the sensor without alarms, set the input type to **Unused**.

Předdefinovaný vstup (Vstup 1b-00-001)

Linka/Karta:	Modul:	Vstup:
Linka 1b	Modul 00	Vstup 000 (0P)*
	Modul 01	Vstup 001 (0T)*
	Modul 31	Vstup 002 (1P)*
		Vstup 003 (1T)*
		Vstup 004 (2P)*
		Vstup 005 (2T)*
		Vstup 006 (3P)*
		Vstup 007 (3T)*
		Vstup 008 (4P)*

☐ Vstup přemostěn
 ☐ SW filtrace
 ☐ Předávat stav na PCO
☐ Inverzní polarita

 ☒ Předávat poplach na PCO

Priorita:

Uživatelský text:

Podsystem:

1. aktivita:

2. aktivita:

3. aktivita:

Uklidnění:

Typ vstupu

<input checked="" type="radio"/> Nepoužitý	<input type="radio"/> Kombinované
<input type="radio"/> Poplach	<input type="radio"/> Kombinované zpožděné
<input type="radio"/> Poplach zpožděný	<input type="radio"/> Komb. zpožděné vnitřní
<input type="radio"/> Poplach zpožděný vnitřní	
<input type="radio"/> Panika	<input type="radio"/> Indikační poplach
<input type="radio"/> Tamper-ochr.kont.	<input type="radio"/> Indik. poplach zpožděný
<input type="radio"/> Předzvěst	<input type="radio"/> Indik. popl. zpožd. vnitřní
<input type="radio"/> Znamení	<input type="radio"/> Indikační panika
<input type="radio"/> Záznam do historie	<input type="radio"/> Indikační tamper
<input type="radio"/> Nulování stavu	<input type="radio"/> Indikační výpadek sítě
<input type="radio"/> Automaticky nulovaný popl.	<input type="radio"/> Indikační porucha baterie
<input type="radio"/> Výpadek síťového napájení	<input type="radio"/> Indikační záznam do hist.
<input type="radio"/> Porucha baterie	<input type="radio"/> Indikační odchod
<input type="radio"/> Zápisy do historie	<input type="radio"/> Indikační odchod zpožd.
<input type="radio"/> Porucha	<input type="radio"/> Indikační odch. zp. vnitřní
<input type="radio"/> Ovládání podsystému	
<input type="radio"/> Nulování událostí	<input type="radio"/> Požár
<input type="radio"/> Odchod	<input type="radio"/> Hlídkání dveří
<input type="radio"/> Odchod zpožděný	<input type="radio"/> Otevření dveří
<input type="radio"/> Odchod zpožděný vnitřní	<input type="radio"/> Evakuace

Linkový modul Dominor (MM1): tamper dvojité vyváženého vstupu n (Cn/T)

 Motion sensor function can simulate the input resistor 3,9K

Subsystems

In section **Subsystems** setup numbers subsystems for pairing with systemic bit in CU3.
Subsystem means a secure area with sensors that can be locked or unlocked state.

Open - system bit = 1
Close - system bit = 0

Example of inserting subsystem:

Subsystems

Insert subsystem number

Assign system bit

number: SYSTEMBIT_003A

Add subsystem

[1, 'SYSTEMBIT_0031'] [Remove](#)

[2, 'SYSTEMBIT_0032'] [Remove](#)

[3, 'SYSTEMBIT_0033'] [Remove](#)

[4, 'SYSTEMBIT_0034'] [Remove](#)

[5, 'SYSTEMBIT_0035'] [Remove](#)

[6, 'SYSTEMBIT_0036'] [Remove](#)

[7, 'SYSTEMBIT_0037'] [Remove](#)

[8, 'SYSTEMBIT_0038'] [Remove](#)

[9, 'SYSTEMBIT_0039'] [Remove](#)

Bookmark Intercoms

Bookmark **Intercoms** is used for define 2N settings and VOIP accounts for applications iHC.

In the section **2N settings** set access (username, password) and lock code for open door (2N IP intercoms).
Setting the following **Username** and **Password** access data on the web interface 2N and **Lock code** set value to relay 2N intercom.

! Connection server support set only one door intercom for open via [DTMF](#).

Supported IP intercoms are :

2N	Helios Verso
	Helios Force
	Helios Safety
	Helios Vario
Unitech	Tashi MT 200L

2N settings

In the menu **2N settings** set access (username, password) and lock code for open door (2N IP intercoms).

2N settings

Username: <input type="text" value="username"/>	Password: <input type="password" value="*****"/>	Lock code: <input type="text" value="•"/>	<input type="button" value="save"/>
---	--	---	-------------------------------------

Set user name 2N intercom

Set password 2N intercom

Set code for open lock

Save settings

New intercom account

In the menu **New intercom account** creating VOIP accounts on server side for applications iHC.

New intercom account

Contact name: <input type="text"/>	Account: <input type="text"/>	Secret: <input type="text"/>	Stream: <input type="text"/>	<input type="button" value="Add"/>
------------------------------------	-------------------------------	------------------------------	------------------------------	------------------------------------

Set contact name

Set user name

Set password for contact

Eventually set stream camera

Add contact

Update asterisk settings

Button Apply settings activated VOIP newly created accounts.

Update asterisk settings

Apply settings

Activates the settings of the newly created accounts

Intercom accounts

In the menu **Intercom accounts** are shown VOIP account for Connection server.

Example of an embedded account intercom 2N:

Intercom from the company 2N are inserted so that the Contact name contained the word "intercom" for example: intercom2, Intercom_Entry etc. capitalization does not matter.

According to the phrase "intercom" in the name of the application will recognize that this is a sound and allow the door opening preset Lock code, if we choose a different name for intercom will behave like an ordinary contact and opening function must be set manually in the mobile app.

Intercom accounts

Contact name	Account	Secret	Stream	
intercom2	intercom2	asdf	rtsp://192.168.88.98/rtpvideo1.sdp	<div>Delete a contact from the list</div> <div>RemoveGet 2n config file</div>
Name contact intercom	User name	Password contact	Link for camera stream without authorization	Configuration file for 2N

! For open switch intercom 2N setup signal DTMF first in web interface Connection server Intercoms > 2N settings or in app iHC.

i Stream for camera 2N add in format **rtsp://IPADDRESS**

i Manual link for video intercom app iHC add in contact intercom to field IP address in this format:


http://IPADDRESS/enu/camera640x480.jpg

i In the case of multiple IP intercom 2N must be set all intercoms for open relay identically (User name, Password, Lock code)

2N settings

In the section **2N settings** set access (username, password) and lock code for open door 2N IP intercoms. Setting **Username** and **Password** are access detail on the web interface 2N and **Lock code** set value for switch to relay 2N intercom.


2N settings

Username: <input type="text" value="username"/>	Password: <input type="password" value="*****"/>	Lock code: <input type="text" value="•"/>	<input type="button" value="save"/>
 Set user name 2N intercom	 Set password 2N intercom	 Set code for open lock	 Save settings

! **IMM server support set only one door intercom for open via [DTMF](#).**

Supported are IP intercoms :

2N	Helios Verso
	Helios Force
	Helios Safety
	Helios Vario
Unitech	Tashi MT 200L

 In the case of multiple IP intercom 2N must be set all intercoms for open relay identically (User name, Password, Lock code)

New intercom account

In the section **New intercom account** creating VOIP accounts on server side for applications iHC.

New intercom account

Contact name: Account: Secret: Stream:

 Stream for cam 2N add in format rtsp://IPADDRESS

 **For view in application iHC must be stream format mjpeg**

Update asterisk settings

Button **Apply settings** activate the newly created accounts VOIP and restart asterisk PBX .

Update asterisk settings

Apply settings

Activates the settings of the newly created accounts

Intercom accounts

In the section **Intercom accounts** are shown VOIP account for IMM server.

Example of an embedded account intercom 2N:

Intercom from the company 2N are inserted so that the Contact name contained the word "intercom" for example: intercom2, Intercom_Entry etc. capitalization does not matter.

According to the phrase "intercom" in the name of the application will recognize that this is a sound and allow the door opening preset Lock code, if we choose a different name for intercom will behave like an ordinary contact and opening function must be set manually in the mobile app.

Intercom accounts					
Contact name	Account	Secret	Stream		
intercom2	intercom2	asdf	rtsp://192.168.88.98/rtpvideo1.sdp		
<div>Name contact intercom</div>	<div>User name</div>	<div>Password contact</div>	<div>Link for camera stream without authorization</div>	<div>Delete a contact from the list</div>	<div>Remove</div> <div>Get 2n config file</div>
					<div>Configuration file for 2N</div>

! For open switch intercom 2N setup signal DTMF first in web interface IMM Server Intercoms 2N settings or in app iHC.

i Stream for camera 2N add in format **rtsp://IPADDRESS**

i Manual link for video intercom app iHC add in contact intercom to field IP address in this format:

http://IPADDRESS/enu/camera640x480.jpg

i In the case of multiple IP intercom 2N must be set all intercoms for open relay identically (User name, Password, Lock code)

Bookmark Energy

Directly in iMM Application the amount of energy consumption can be clearly displayed. Energy is recounted based on the amount of impulses that provide outputs from meters (gas-meters, electrometers, water-meters). Impulses are further processed in an optional input unit of system iNELS (IM2-140M, IM2-20/40/80B) in form of a counter. This value is by means of export.pub transferred to Connection Server where variable is in iMMCC on bookmark Energy assigned to Water/Gas/Electrical. The setting of pulse conversion to unit of measure, selection of currency and setting the currency/unit is performed in iMMCC application in activated Energy module. The Energy module allows recording of consumed energy for a day, week, month and year. Data are saved in iMM Server – the data do not get lost even in case of power shutdown or power cut. Consumption can be displayed in a table or graph.

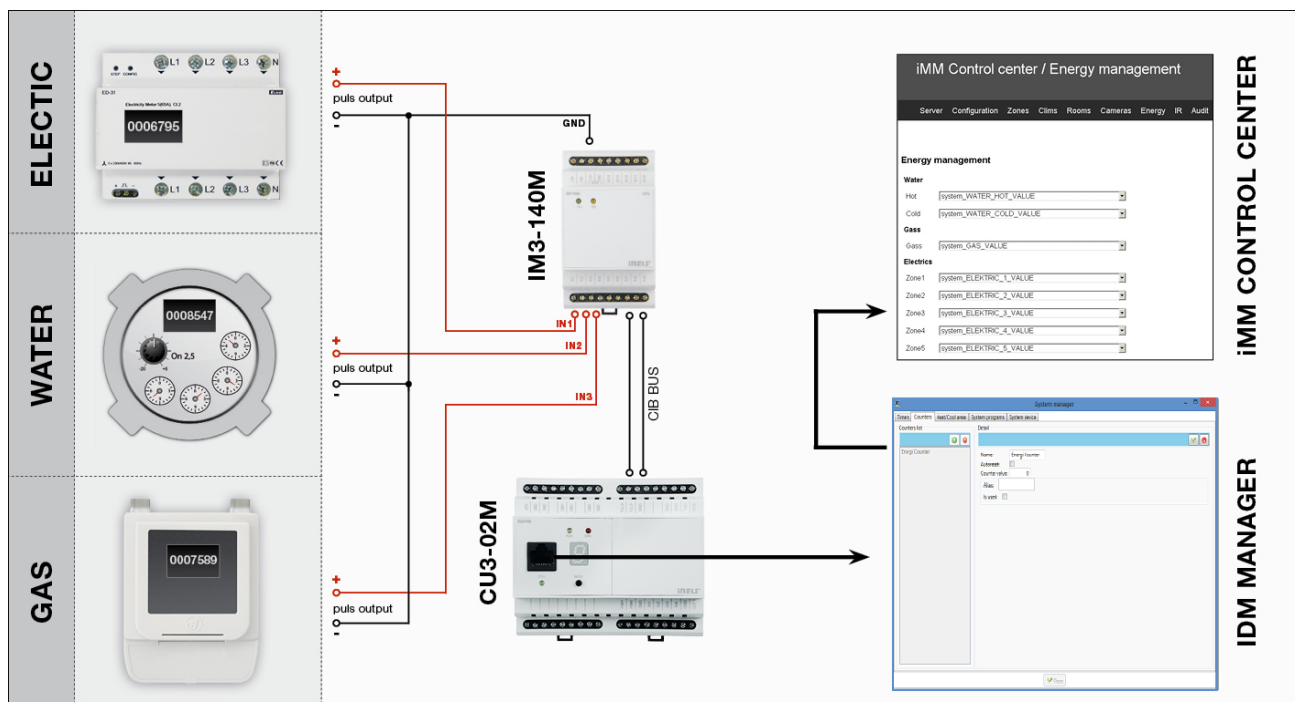
The absorbed energy is shown in quantity but also in financial value.

The list of supported measuring devices, which have a pulse output, can be found here:

1. Click on the System Configuration button (icon of hammer and screwdriver – F11)
2. Select bookmark System -> counters
3. Add counter that you name by energy you want to measure
4. Create a new action that you name e.g. upload electricity
5. Add a command in the action which will be user action -> commands for counters -> increment counter
6. Select counter that corresponds with given action (e.g. for upload electricity you put counter electricity)
7. Add the action created as described above in system configuration to relevant binary input in action line when the input closes
8. Once the file export-pub is created and uploaded to iMM server, in bookmark Energy you can assign in the counter value line (electricity_VALUE). It must be VALUE in the line.

Connection of energy meter

Energy meter connects by means of a binary output unit. Output from supported energy meter is distinguished to + a -, that's why polarity has to be maintained by bringing – minus to GND terminal and + plus to IN terminal.



Creation of counter in iDM:

Konfigurace systému

Vstupy | Výstupy | Vytápění/Chlazení | Alarmy | **Systém** | GSM

Čítače | Časovače | Události systému

Název	Stav čítače
Electric-value	

Nastavení čítače

Název čítače: Electric-value

☐ Vyvolat akci při dosažení hodnoty

☒ Pouze vyvolat akci

☐ Resetovat čítač

Testovaná hodnota: je větší nebo rovno '>=' 0

Hodnotou volaná událost: Bez události nebo vložit novou ->

Visualizace

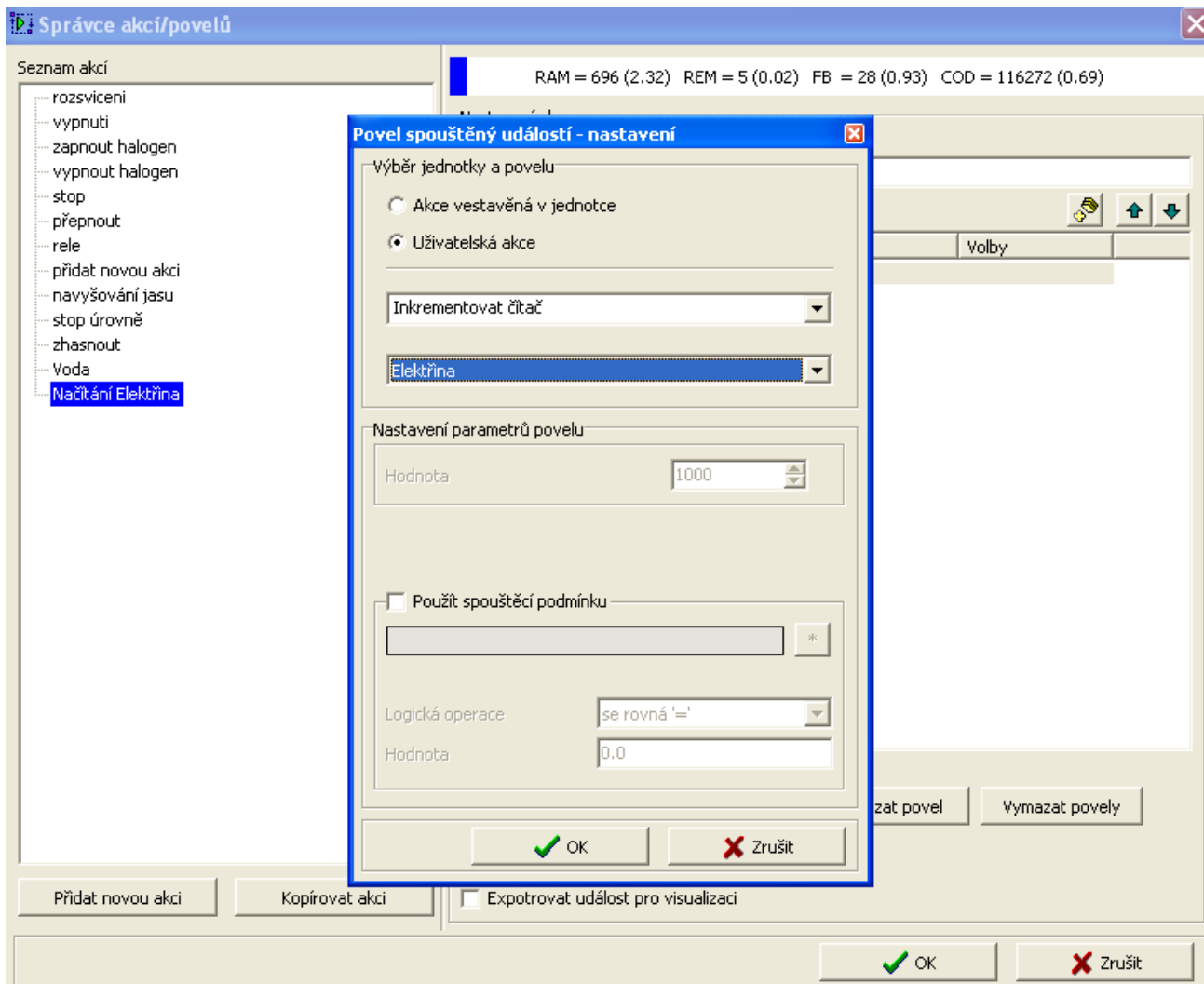
☐ Exportovat pro vizualizaci

Pojmenování / alias

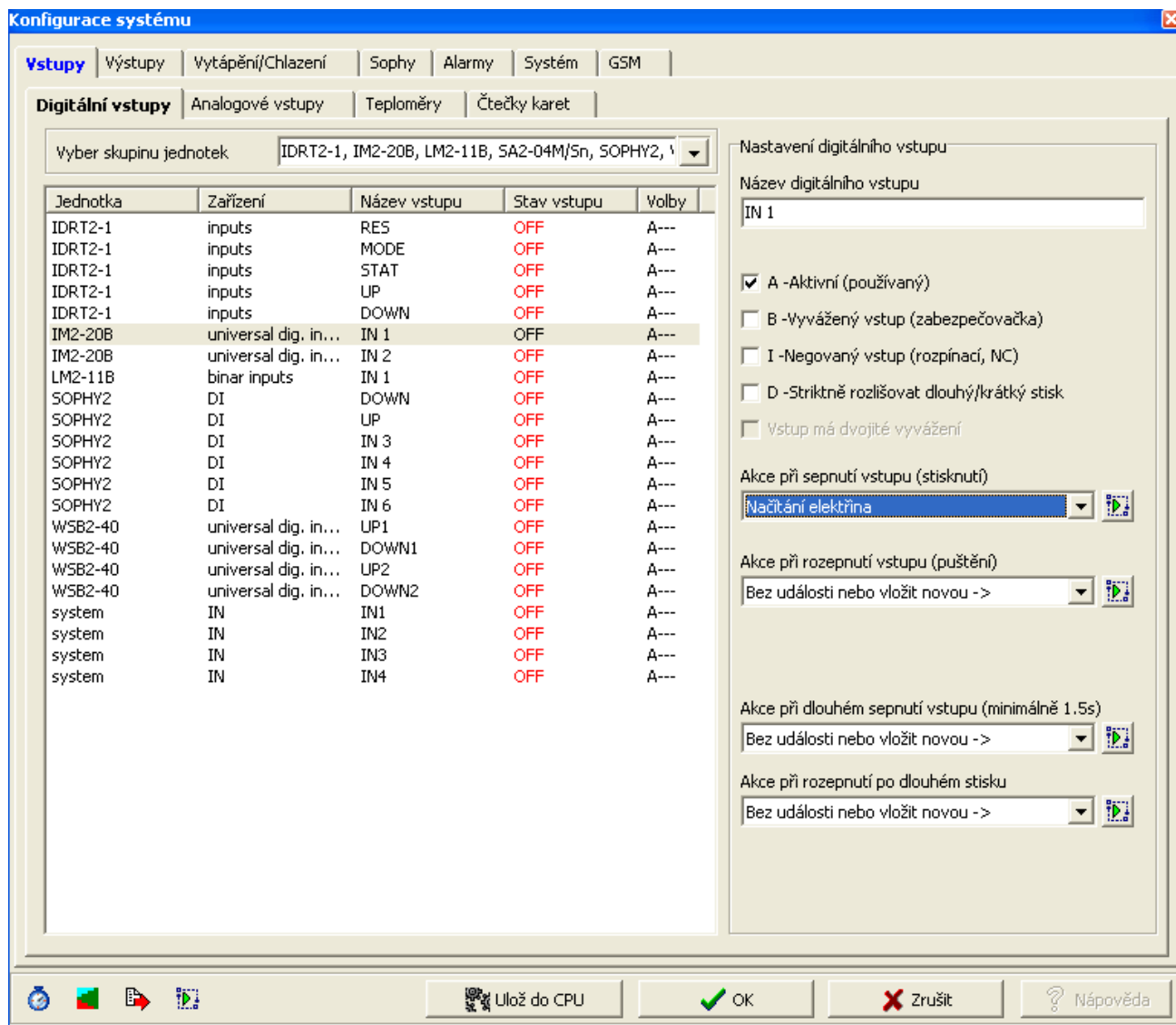
Přidat čítač Smazat čítač

Ulož do CPU OK Zrušit nápověda

Creation of action "Counter incrementing":



Action assignment to binary input where output from measuring instrument is connected.



Assign counter value in iMM Control Center

Energy management

Water

Water_hot

Select counter for hot watter

Water_cold

Select counter for cold watter

Gass

Gass_elem

Select counter for gas

Electrics

Electric_zone_1

Select counter for electricity meter

Electric_zone_2

Electric_zone_3

Electric_zone_4

Electric_zone_5

Example:

1 kWh = 100,- Kč = 100 pulzů

Base Unit – **kWh**

Impulses – **100** per **1** kWh

Price – **1** per 1 impulse

Create counter in software IDM3 see. [Create counter IDM3](#)

Energy management

In the section **Energy management** select binary inputs for WATER, GAS, ELECTRICITY and adding them to unit, impulse, currency.

Example Energy management:

Energy management

Water

Water_hot

system_Voda_DOWN

Select counter for hot watter

Water_cold

Select counter for cold watter

Gass

Gass_elem

system_Plyn_VALUE

Select counter for gas meter

Electrics

Electric_zone_1

system_TIM3_Elektrika_VALUE

Select counter for electricity meter

Electric_zone_2

Electric_zone_3

Electric_zone_4

Electric_zone_5

Electric

Base unit: ☒ kWh ☐ MWh

Price electricity meter Z1

Z1 Price: 2 per 40 Impulses per 10 kWh

Z2 Price: 1 per 1 Impulses per 1 kWh

Z3 Price: 1 per 1 Impulses per 1 kWh

Z4 Price: 1 per 1 Impulses per 1 kWh

Z5 Price: 1 per 1 Impulses per 1 kWh

Water

Base unit: ☐ l ☐ hl ☒ m3 ☐ Gallon UK ☐ Galon US

Impulses: 40 per 1 m3

Price: 4 per 40 Impulses

Gass

Base unit: ☒ m3

Impulses: 20 per 1 m3

Price: 1 per 20 Impulses

Currency: \$

update

Save settings

Create counter see. bookmark [Energy](#)

Create counter IDM3

Create counter in software IDM3

In bookmark **Managers**, select the **System Manager** and go to the tab **Counters** where we create a counter name.

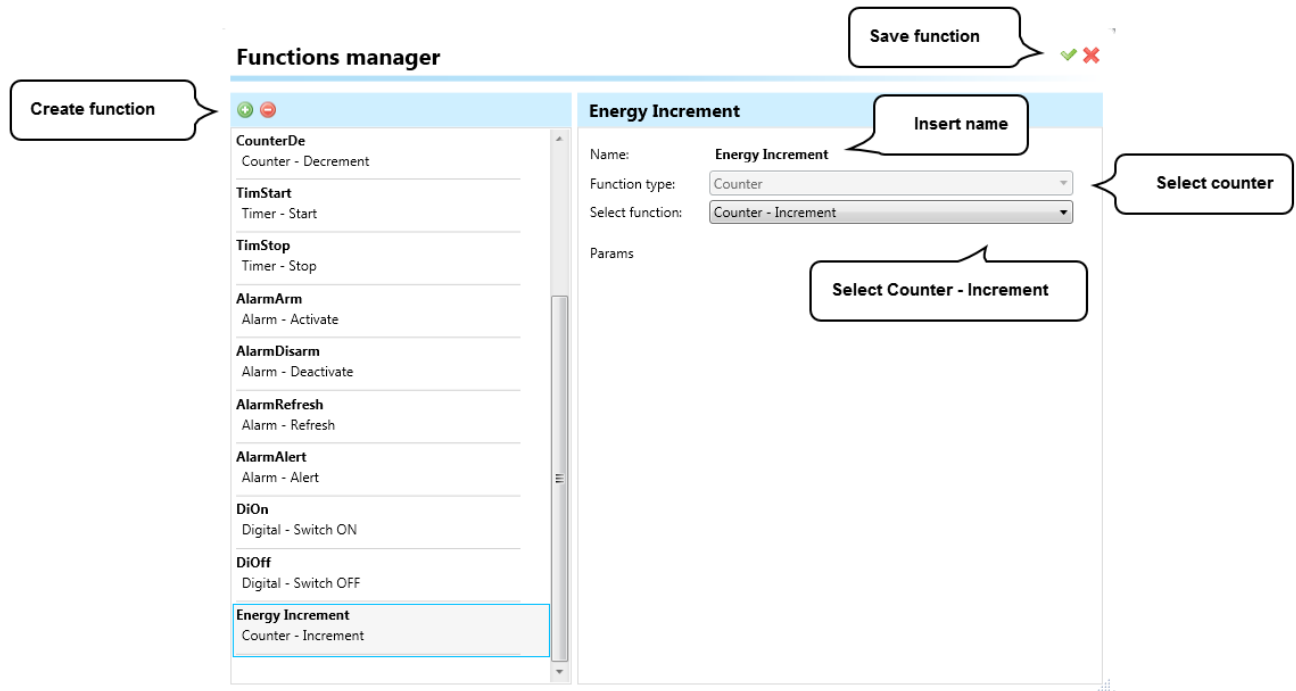
The screenshot shows the 'Counters' tab in the IDM3 software. The interface is split into two panes. The left pane, titled 'Counters list', contains a 'Create counter' button. The right pane, titled 'Detail', contains the following fields and controls:

- Name:** A text field containing 'Energy Counter'. A callout box points to this field with the text 'Insert the name of the counter'.
- Autoreset:** A checkbox that is currently unchecked.
- Counter value:** A text field containing '0'.
- Export:** A checkbox that is currently unchecked.
- Alias:** An empty text field.
- Is used:** A checkbox that is currently unchecked.
- Save counter:** A button located to the right of the 'Name' field, with a callout box pointing to it.

At the bottom center of the window is a 'Close' button with a green checkmark icon.

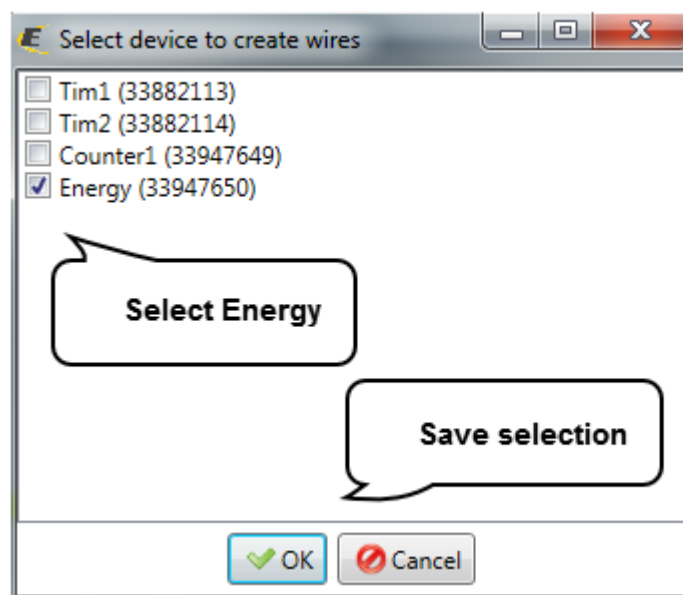
Creating functions for counter

In the **Functions** tab, select the **Function Manager** and create a function called Energy Increment

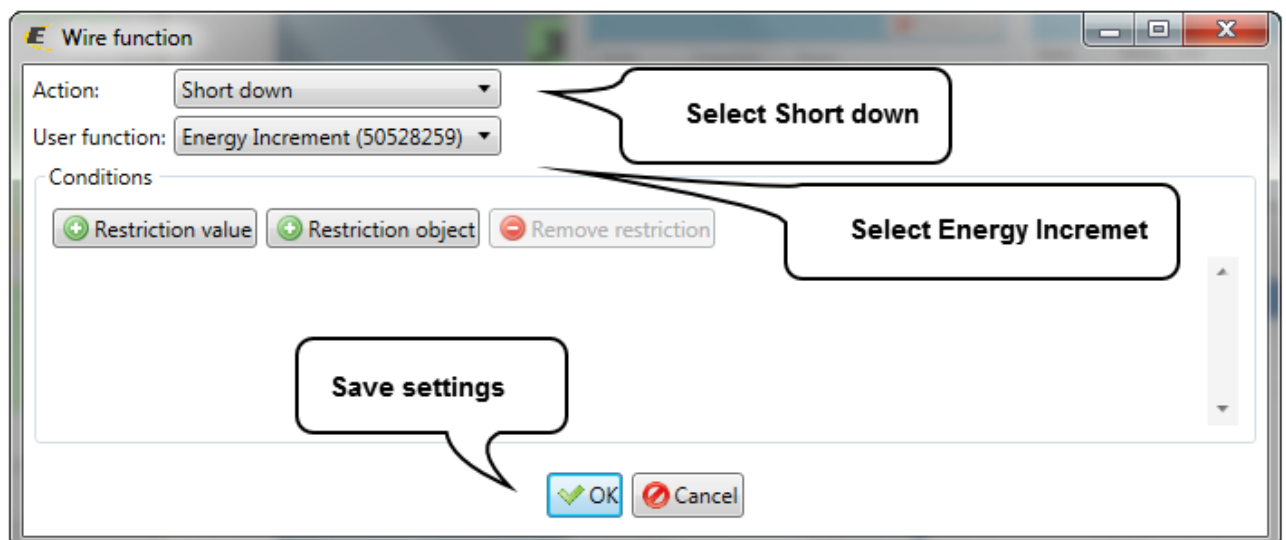
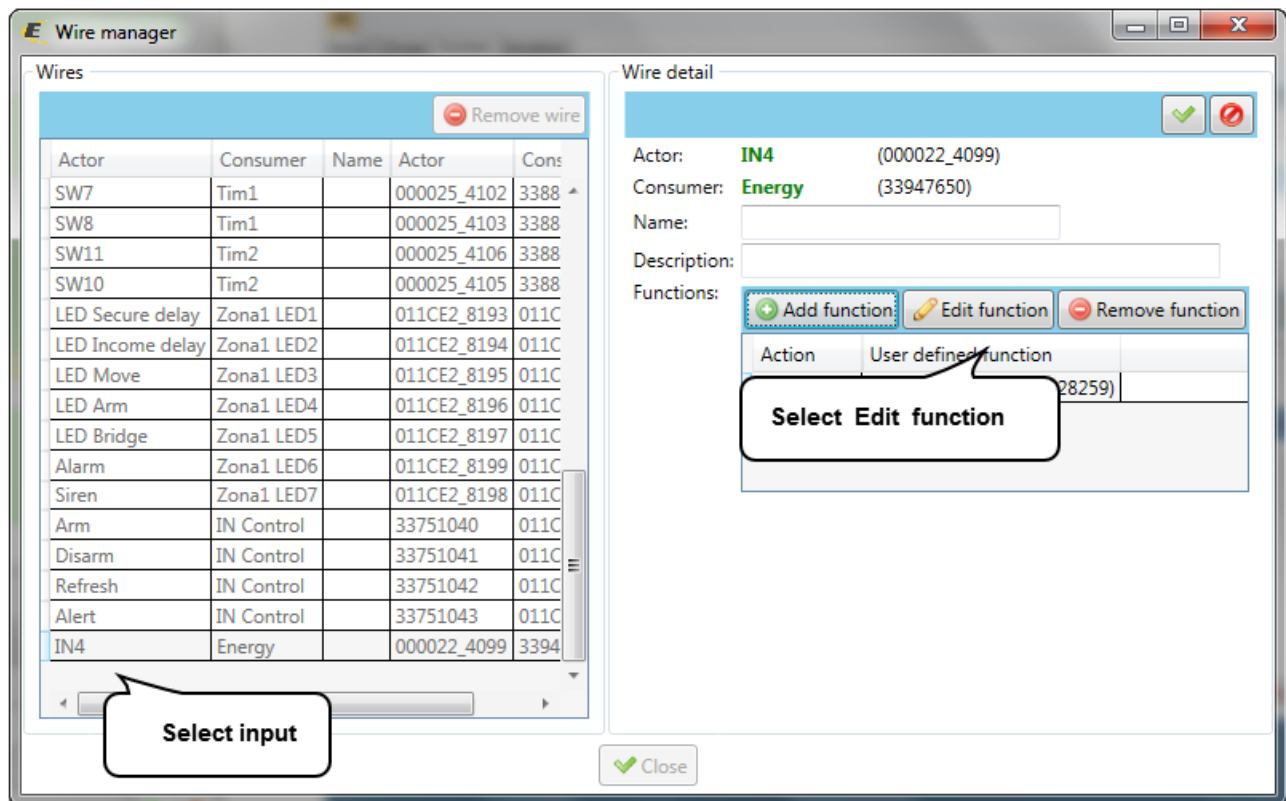


Move the switch and central units to the desktop and double click on switch icon edit and select IN Digital input M3-80B.

In the **Function** tab, select **ADD connections**, make the connection by pulling the wire from the switch icon on the icon and select Central Unit Energy.



In the tab, **Function** select **Wire Manager**, select the input (IN) Energy through button the Edit function to adjust to Action: **Short down** User function: **Energy Increment**.



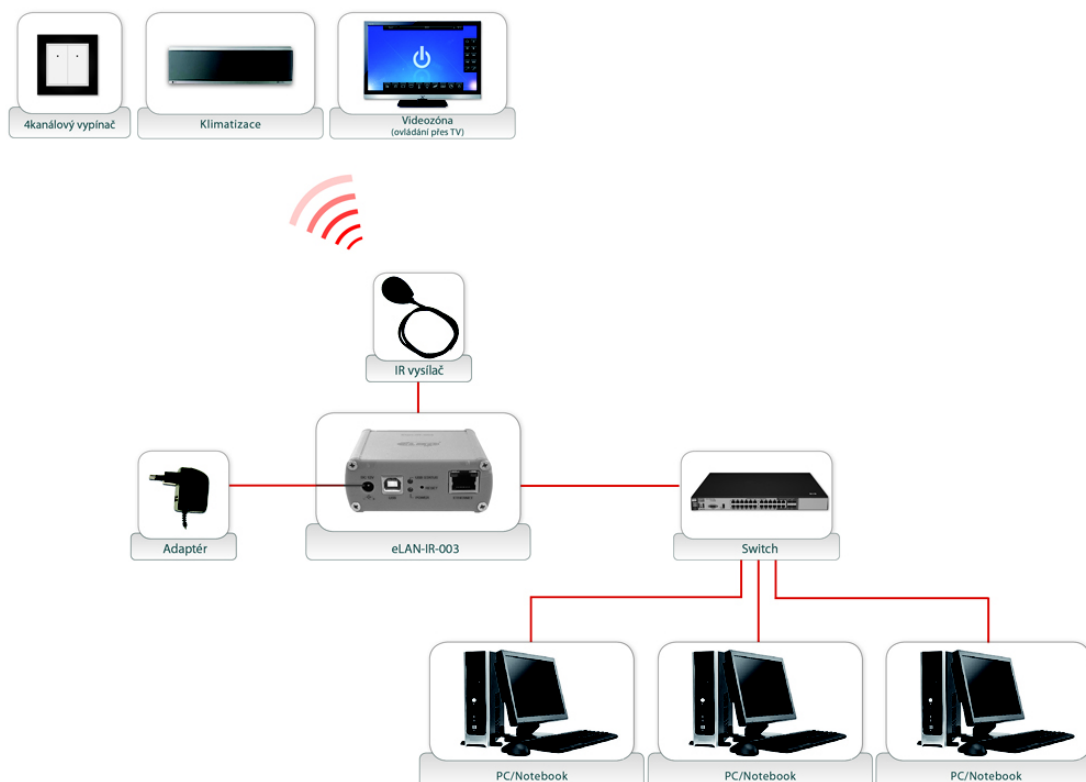
Add the created counter to iMMCC [Energy management](#)

Bookmark IR

Serves for settings the eLAN-IR converter. The eLAN-IR converter enables control of devices of devices of third parties (that cannot be controlled) by means of IR codes that the convertor learns from the original remote control.

Control from iMM can then be used in two different ways (before API 4):

1. By means of virtual control in web browser (that you optionally predefined).
In iMM you can call this virtual control up by pressing the panel button in the web interface IP convertor.
2. By pairing with the given zone in which you wish to control the 3rd parties device (TV, amplifiers)



IR settings

In menu IR settings set IP addressu device eLAN-IR depending on which version of firmware is.

Version API:	Version firmwaru
Before 4	1.6.406 or lower
After 4	1.6.508 or higher

IR settings

IP:

Select API version: Before 4

[Edit](#)

IP address device eLAN-IR

Select version API

Edit IR settings

Update settings

In client part IMM in bookmark Zones <http://localhost:8090/zone> in the section Control specify to IR type together with the set ID Equipment eLAN-IR.

Control

IR

☐ Amplifier

☒ Tv

Vyberte typ zařízení

Device id:

Device id:

ID zařízení nastaveného zařízení v eLAN-IR

ELKO[®]
ep

ELAN-IR

FW version: 1.6.510
API version: 0.4

Memory free/total: 4034048 / 4041728

Rooms

Scenes

Devices

1. 1422462488474(tv)

2. 1424356786347(samsung)

 API version 4 you can check in your web browser <http://IPADDRESSeLAN-IR/api>

IR settings;

In the section **IR settings** set IP address device eLAN-IR according versions API.

API version:	Verze firmwaru
Before 4	1.6.406 and lower
After 4	1.6.508 and higher

The screenshot shows the 'IR settings' section of a web interface. It includes an 'IP:' label followed by a text input field. Below this is a 'Select API version:' label with a dropdown menu showing 'Before 4' and 'After 4' options. There are 'Update' and 'Edit' buttons. Callout boxes point to these elements: 'IP address device eLAN-IR' points to the IP input field; 'Select version API' points to the API version dropdown; 'Edit IR settings' points to the 'Edit' button; and 'Update settings' points to the 'Update' button.

The client part iMM tab Zones <http://localhost:8090/zone> in the Control to specify device type of IR codes together with ID set device eLAN-IR

Control

IR

☐ Amplifier

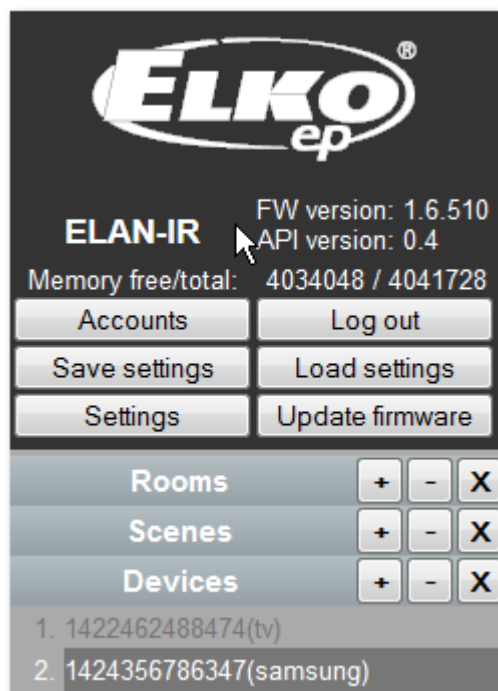
☒ Tv

Device id: 1424356786347

Device id:

Select device type

Device ID adjusted at eLAN-IR



 API version 4 you can check in web browser http://IPADDRESS_eLAN-IR/api

Elan

Settings for API before 4: In the section Elan set IP address device eLAN-IR and port 61682 in default setup.

Panel

Settings

Builder

WARNING: IR elan is not connected

Elan

Ip:10.10.13.3

Port:61682

Panel

Type:Color ▾

Value:blue

Width:600

Height:400

Save

IP address device eLAN-IR

Port for eLAN IR in default 61682

Save settings

Setting control IR commands for: turn off, turn on, volume up, volume down put into bookmark zone on client side.

! Use API before 4 last firmware v1.6.406

Panel

In the section **Panel** you can setup background color and window resolution in bookmark panel.

Panel

Settings

Builder

WARNING: IR elan is not connected

Elan

Ip:10.10.13.3

Port:61682

IP address device eLAN-IR

Port for eLAN IR in default 61682

Panel

Type:Color ▾

Value:blue

Width:600

Height:400

Save

Save settings

Setting control IR commands for: turn off, turn on, volume up, volume down put into bookmark zone on client side.

Bookmark Giom

In the bookmark Giom creating scenes based on data from weather stations Giom and their reactions elektroinstalacji iNELS.

In the bookmark Giom creating a scene according to data from the weather station call Giom (**IPADDRESS:8080/geom**) Scene will be activated if selected value is higher or lower then set and assigned to units.

Wind flow is higher than set

Temperature is lower than set

Temperature is higher than set

Relative humidity is higher than set

Relative humidity is lower than set

Scene

Wind speed: m/s [Edit](#)

Low temperature: °C [Edit](#)

High temperature: °C [Edit](#)

High relative humidity: % [Edit](#)

Low relative humidity: % [Edit](#)

[update](#)

[Save settings](#)

Edit scene Low temperature

Edit scene

low_temp

Selected relay

State ON =1 OFF=0

SA2_04M_Sn_SW1

[Add event](#)

Add relay

Defined events

SA2_04M_Sn_SW1 1 [Remove](#)

Add switch unit

Remove unit

Connect Giom station as zone:

IMM connection with the server is defined in IMMControl Center in the "Zones" where it is necessary to state "Is it Giom?"

switch from "no" to "yes".

To integrate Meteo Station you need to change its IP address to an address of the given range. Settings can be performed via web interface. Meteo station IP address can be found out using the "Mlocator" software which can be downloaded in the manufacture's website: [link](#)

! For proper function you must first set up [Giom](#) such a zone.

i Information from meteo station can be displayed in applications iHC or application iMM Client press the left button on the clock icon in the upper right of the application

Giom scene

In the bookmark **Giom** creating a scene according to data from the weather station call Giom (**IPADDRESS:8080/giom**) Scene will be activated if selected value is higher or lower then set and assigned to units.

Wind flow is higher than set

Temperature is lower than set

Temperature is higher than set

Relative humidity is higher than set

Relative humidity is lower than set

Scene

Wind speed: m/s [Edit](#)

Low temperature: °C [Edit](#)

High temperature: °C [Edit](#)

High relative humidity: % [Edit](#)

Low relative humidity: % [Edit](#)

[update](#)

[Save settings](#)

Edit scene Low temperature

Edit scene:

low_temp

Selected relay

State ON =1 OFF=0

SA2_04M_Sn_SW1

1

Add event

Add relay

Defined events

SA2_04M_Sn_SW1 1 [Remove](#)

Remove unit

Added switch unit

! For proper function you must first set up [Giom](#) such a zone.

i Information from meteo station can by displayed in applications iHC or aplication IMM Client
press the left button on the clock icon in the upper right of the application

Edit

Edit is used to create or edit scenes. In the selected scene type is possible add or remove relay units.

Example **Edit selected scene**:

low_temp

SA2_04M_Sn_SW1

1

Add event

Add relay

Selected relay

State ON =1 OFF=0

Defined events

SA2_04M_Sn_SW1

1

[Remove](#)

Remove unit

Added switch unit

Download manual

In bookmark **Manual** is available for download the latest version of the manual in PDF format.

Download manual

Download

Download the manual Connection server

Download manual

In the section **Download manual** click the button **Download** you can download the current version manual in PDF format.

Download manual



Bookmark Default settings.

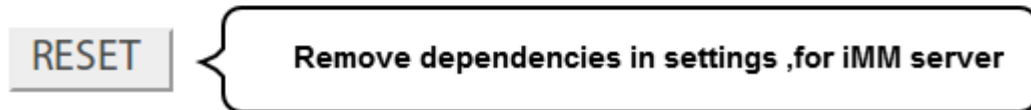
Bookmark **Default settings** is used for reset settings to default state. The first option offers is **Reset all clients settings to default** to reset IMM server to factory default ie. remove all users settings.

The second option is **Reset all devices dependencies to default**, which only remove users settings related dependencies to other IMM server functions.

Reset all server settings to default:



Reset all devices dependencies to default:



Reset all server settings to default

Reset all server settings to default is used to reset server IMM to factory default i.e.that all user settings will be erased.

Reset all server settings to default:



Reset all devices dependencies to default

In the section **Reset all devices dependencies to default**, remove settings which are depending on other functions IMM server for example relay,air conditiong etc.

Reset all devices dependencies to default:

RESET

Remove dependencies in settings, for IMM server

Bookmark Audit

Bookmark **Audit** is used to show a download LOG option events for diagnostic purposes developer.

Logged events

```
127.0.0.1:49528 - - [02/Jan/2015 13:50:04] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:04] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:07] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /manual" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:09] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /dsettings" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /favicon.ico" - 200 OK
```

Download logs

Download log file

Actual log list

Logged events

In the section **Logged events** is used to show a download LOG option events for diagnostic purposes developer.

Logged events

```
127.0.0.1:49528 - - [02/Jan/2015 13:50:04] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:04] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:07] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /manual" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:08] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:09] "HTTP/1.1 GET /favicon.ico" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /dsettings" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /style.css" - 200 OK
127.0.0.1:49528 - - [02/Jan/2015 13:50:10] "HTTP/1.1 GET /favicon.ico" - 200 OK
```

Download logs

Download log file

Actual log list

Other

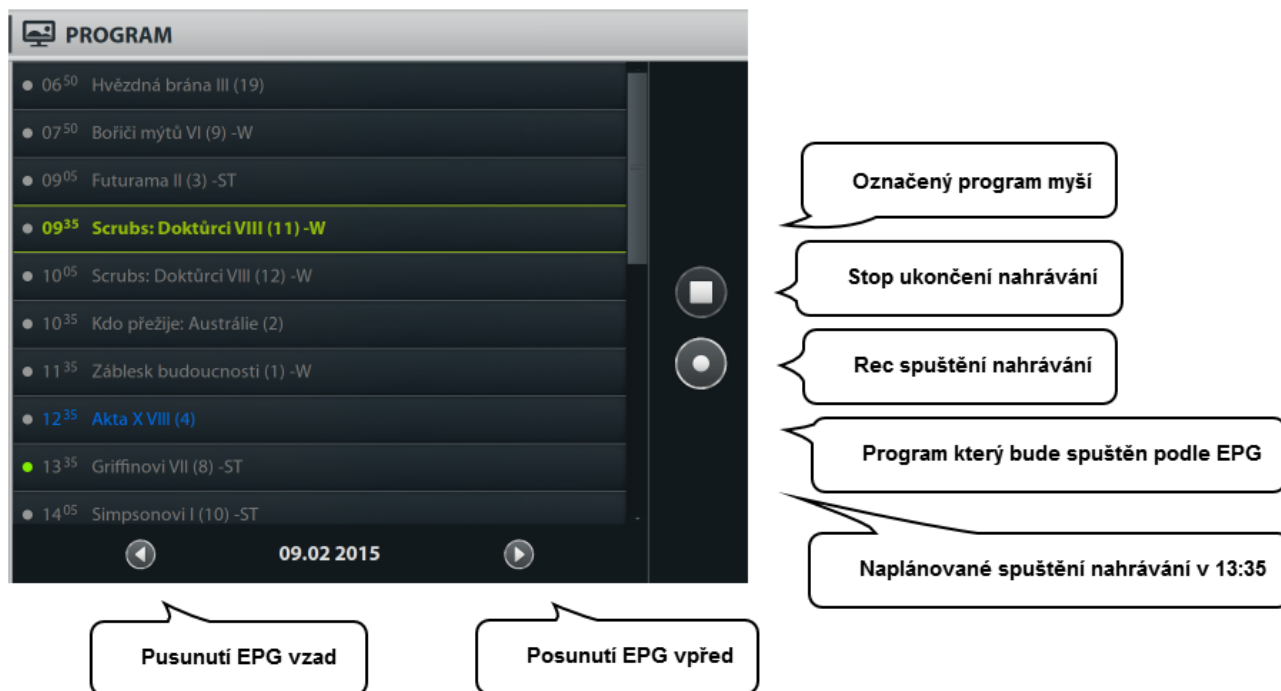
<TODO>: Insert description text here... And don't forget to add keyword for this topic

EPG - Electronic Program Guide

For TV programs are displayed electronic program guide for several days in advance.

Starting the program on the basis EPG

The planned launch your favorite program is made by using the right button in the program menu EPG of the channel, the selected program will turn blue and waiting to start the selected program, which will start or switch to the when program start.

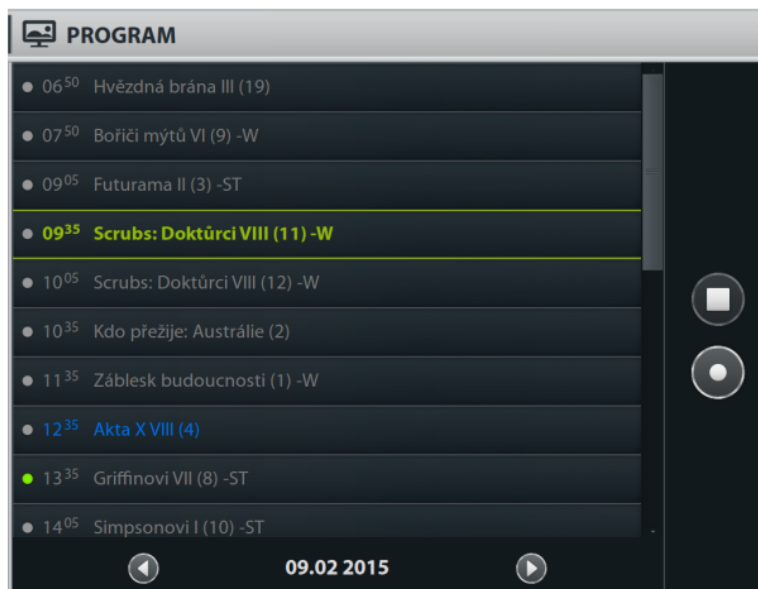


! Označit můžeme pouze jeden pořad v případě označení více pořadů bude spuštěn jen ten který byl nastaven jako poslední.

REC - Nahrávání video streamu

Probíhající televizní streamy můžeme nahrát pomocí tlačítka Rec nebo naplánovat nahrání podle EPG.

Plánované nahrávání pomocí EPG nastavíme klepnutím levého tlačítka myši na vybraný filmový titul v nabídce EPG.



Stop - zastaví probíhající nahrávání

Rec - spustí nahrávání vybraného programu

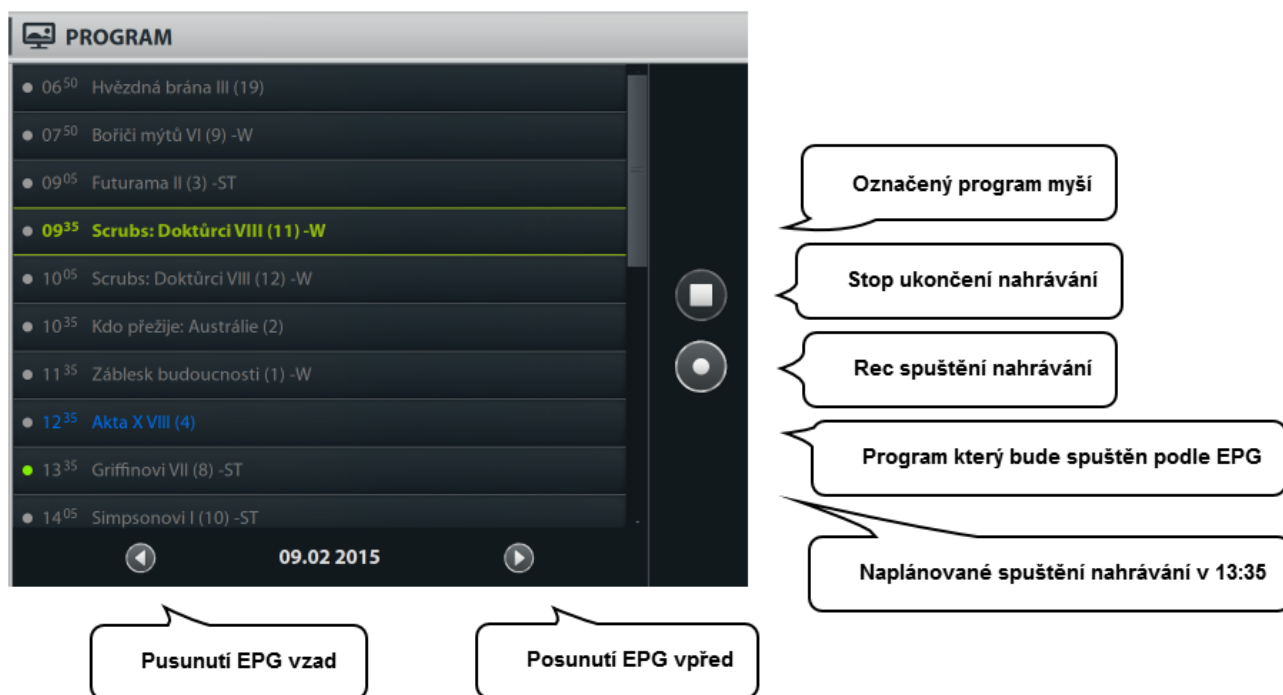
! Označit můžeme více pořadů pro plánované nahrávání čekající programy na nahrávání signalizuje zelená tečka před názvem titulu.

EPG - Elektronický programový průvodce

U televizních programů se zobrazuje elektronický programový průvodce na několik dnů dopředu v případě .

Spuštění programu na základě EPG

Plánované spuštění oblíbeného pořadu provedeme pomocí pravého tlačítka v programové nabídce EPG daného kanálu, vybraný pořad zmodrá a čeká na spuštění vybraného pořadu, který se spustí nebo přepne na začátku pořadu.

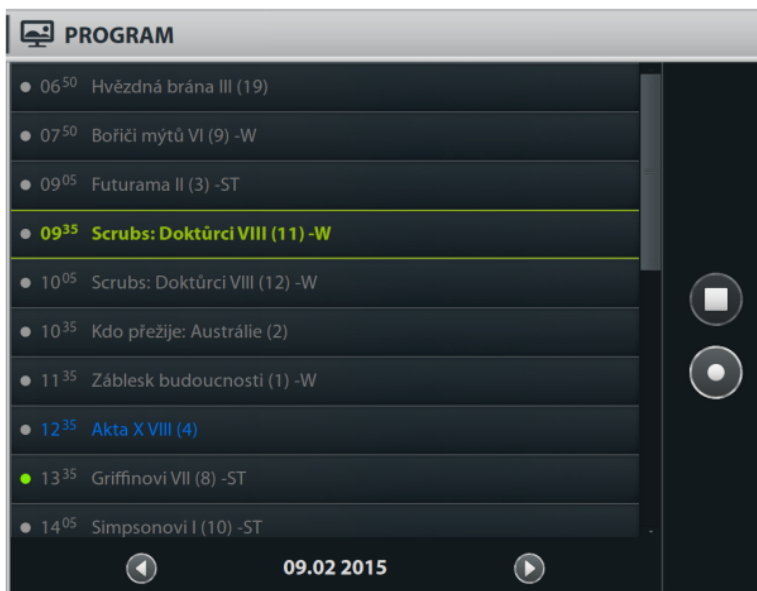


! Označit můžeme pouze jeden pořad v případě označení více pořadů bude spuštěn jen ten který byl nastaven jako poslední.

REC - Nahrávání video streamu

Probíhající televizní streamy můžeme nahrát pomocí tlačítka Rec nebo naplánovat nahrání podle EPG.

Plánované nahrávání pomocí EPG nastavíme klepnutím levého tlačítka myši na vybraný filmový titul v nabídce EPG.



Stop - zastaví probíhající nahrávání

Rec - spustí nahrávání vybraného programu

! Označit můžeme více pořadů pro plánované nahrávání čekající programy na nahrávání signalizuje zelená tečka před názvem titulu.

Heating

With the controls on the right side, FP heating is adapted to control the heating. There you can change setting of individual preset heating modes (Minimum, Low, Normal, Comfort, Attenuation, Auto).

! **Switching to AUTO mode on the floorplan is allow for CU2.**

- a) If you wish to control individual heating modes, you have to enable export of control and setting of heating program in IDM software. In time/weekly program administrator a part of export setting for visualisation.

Enable export heating circuits for visualization

Správce časových/týdenních programů

Název Stav

Panel

Název Panel Vytápění/chlazení

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Kopírovat časový program do

Nastavení exportu pro vizualizaci

☒ Exportovat nastavení programu

Nastavení programu

Panel_SETUP

☒ Exportovat ovládání programu

Vypnout vnučené režimy

Panel_RES

Zapnout vnučené minimum

Panel_VM

Zapnout vnučený útlum

Panel_VU

Zapnout vnučený normal

Panel_VN

Zapnout vnučený komfort

Panel_VK

Zapnout režim prezentace

Panel_PRE

Zapnout komfort na 1h

Panel_KOM

☒ Exportovat stavy programu

Žádaná teplota vytápění

Panel_StateTH

Žádaná teplota chlazení

Panel_StateTC

Zapnutý vnučený režim

Panel_StateVMode

Zapnutý režim minimum

Panel_StateM

Zapnutý režim útlum

Panel_StateU

Zapnutý režim normal

Panel_StateN

Zapnutý režim komfort

Panel_StateK

Zapnutý režim prezentace

Panel_StatePRE


Zapnutý režim dočasný komfort

Panel_StateKOM

Přidat

Vymazat

OK Zrušit

- b) After clicking on FP select export.pub from the list of elements; it contains StateTH.
- c) Select the thermostat icon 
- d) \$o °C is typed automatically in "description" (in the icon description you add variable temperature value behind \$o).
You can add your own icon description behind the legend.
- e) Thermometer icon appears on FP with selected thermal mode and temperature that

corresponds with the selected mode. Modes can be alternated by buttons on the right FP side.



Komfort



Normál



Minimum



Útlum (LO)

Configuration in software IDM3

Heating circuit configuration is done in the Managers tab and select the System Manager and go to the HeatCoolareas.

